

## **ENVIRONMENTAL ASSESSMENT**

**Crown Castle USA  
Proposed Wireless Telecommunications Facility  
Oakdale BU#870095  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463**

### **FEDERAL COMMUNICATIONS COMMISSION**

**SUBMITTED PURSUANT TO 47 CFR, PART 1, SUBPART 1,  
RULE SECTION 1.1307(a)**

The proposed telecommunications project consists of the removal of one 465-foot guyed tower and replacement with a new 465-foot tall guyed tower to provide wireless telecommunications service. The project is located Oakdale, Allen Parrish, Louisiana.

November 14, 2012

*Prepared by*



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**Mark Larocque - President  
Practical Environmental Services LLC  
PO Box 642  
Quarryville, PA 17566**

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## **1. PROJECT DESCRIPTION, PURPOSE AND NEED FOR ACTION**

The proposed telecommunication tower, named as Oakdale BU#870095, is located at 1117 North 7<sup>th</sup> Avenue in Oakdale, Allen Parish, Louisiana. The proposed action includes the replacement of one 465-foot tall guyed tower with a new 465-foot tall guyed tower. The tower structure is to be constructed by Crown Castle USA (Crown). On behalf of Crown, Practical Environmental Solutions LLC (PES) is completing this Environmental Assessment (EA) for the proposed structure.

The proposed facility location is an approximate 10.1-acre parcel on Sections 34 of Township 2 South and Range 3 East, owned by Crown Castle (Figure 1). The project area is to be located within ten feet of the existing guyed tower and associated telecom equipment. The guyed tower was built in the 1994 by H. V. Towers. The property was undeveloped land prior to 1994.

The proposed construction of this facility is one of several like structures that create a link in a network to provide wireless telecommunications service to the public in the surrounding area. The proposed site was selected to effectively meet radio frequency transmission requirements for this area, while avoiding or minimizing adverse environmental impacts. The current tower needs to be replaced due to structural issues and to accommodate the needs of the carriers on the tower.

The construction of, and/or installation of antennas on telecommunication towers, is regulated by the FCC and is subject to compliance with the National Environmental Policy Act (NEPA) of 1969. In accordance with NEPA, PES reviewed the Federal Emergency Management Agency (FEMA)/Flood Insurance Rate Map (FIRM) per Community Panel Number 22003C0160D. The FEMA/FIRM Map indicates that the site is located within FIRM Zone AE with no base flood elevations (BFE) determined. The site elevation at the location is 112 feet above mean sea level (amsl). This classification is within the 100-year floodplain. The flood hazard factors have been determined, and therefore, require the applicant to file an EA prepared in accordance with Council on Environmental Quality (CEQ) and FCC regulations for implementing NEPA.

This EA has been prepared to address the environmental impacts associated with the proposed action and allow the FCC to determine whether an Environmental Impact Statement (EIS) is required. The EA is based on a NEPA compliance evaluation conducted by PES and includes documentation from the site reconnaissance and research.

## **2. ALTERNATIVES**

### **2.1 Preferred Alternative**

Crown evaluates several alternative candidate locations when selecting a proposed site. Alternatives often include sites for construction of a new tower as well as towers on buildings or other structures. Several search criteria must be met for a location to be considered suitable for construction of a communication tower or mounting of telecommunication antennas on an existing structure. The limiting factor is that the tower or structure on which antennas will be mounted must meet the coverage and capacity needs of the area.

The main objective of a wireless installation is to relay signals. Various obstacles can affect the efficiency of signals, including but not limited to: atmospheric conditions, terrain, vegetation and building obstruction. Once determinations of adequate signal propagation are made, an area's zoning regulations are determined and a search area is defined. The final selection of candidate sites is made based on effectiveness of coverage, environmental factors, access, lease availability and rate, and feasibility of construction.

The proposed tower is required to maintain a communications network serving the residences, businesses and highway traffic in the area. The proposed tower was historically selected as the preferred alternative due to its ability to meet the objectives stated above.

### **2.2 No Action Alternative**

The "no action alternative" would consist of no construction at the proposed site. The existing Crown towers would have to be extensively reinforced or dismantled. Other service providers would then lose coverage in this area resulting in call blocking as described in Section 1.0 above. The alternative would be to seek out multiple, less efficient (from a radiofrequency standpoint) sites in the surrounding area. The "no action alternative" would therefore not meet the project needs and could result in the construction of more than one project to provide reliable service for routine and emergency calls.

## **3. ASSESSMENTS**

The proposed facility location is an approximate 10.1-acre parcel on Sections 34 of Township 2 South and Range 3 East, owned by Crown Castle. The parent property, zoned commercial, consists of an open lot with the one existing guyed tower that is to be replaced. Crown is in the process of obtaining the permits required for the project.

The surrounding properties consist of residential land and undeveloped land. Other areas within a ½-mile radius of the Site are developed with residential usage also.

Under 47 CFR Section 1.1307, the FCC requires an evaluation of several environmental and human health issues to determine whether a proposed action may have a significant impact on the environment. Research and field surveys were historically completed for each criterion, including consultation with the Louisiana Historical Preservation Department, consultation with the United States Fish and Wildlife Service, consultation with the tribal representatives with ties to the area. The potential for impact on the following resources and human health criteria was evaluated:

- Designated Wilderness Areas
- Designated Wildlife Preserves
- Listed Threatened or Endangered Species or Designated Critical Habitat
- Proposed Threatened or Endangered Species or Designated Critical Habitat
- Historic Places
- Indian Religious Sites
- Floodplains
- Surface Features
- Zoning/High Intensity White Lights
- Radiation Exposure

### 3.1 Wilderness Areas and Wildlife Preserves

The site does not lie within the boundaries of an officially designated wilderness area or an officially designated wildlife preserve. This conclusion was made based on consultation with the US Fish and Wildlife Service (see attached NEPA).

### 3.2 Listed or Proposed Threatened or Endangered Species or Designated Critical Habitat

Field survey and literature searches indicate that the construction and operation of this communication site is not likely to affect listed or proposed threatened or endangered species or designated critical habitats. Although protected species are not likely to occur on the site, future occurrences cannot be ruled out due to changing natural populations and modifications to the official lists. The proposed site is not located within the boundaries of a designated critical habitat.

The facility is not being placed in a known bird migration route or stopover site. The proposed tower is not expected to require high intensity lighting (see attached migratory bird study).

### 3.3 Historic Places

The conclusions of the literature and record search indicate that the construction and operation of this communication site is not likely to affect districts, sites, buildings, structures, or objects listed in, or eligible for listing in the National Register of Historic Places (NHRP). There are no known National Register (NR) or National Register Eligible (NRE) structures within the APE of the tower (1.5 miles). The tower was built prior to March 2001 and meets the National Programmatic Agreement (NPA) exemptions. Additionally, the replacement tower is considered a like-for-like replacement with no substantial increase. Under the terms of the NPA, the new tower is also exempted. Therefore, the action would have no effect on historic resources. A copy of NEPA is included in Appendix A.

### 3.4 Indian Religious Sites

The conclusions of the literature and record search indicate that the construction and operation of this communication site will not affect Indian religious sites. It was historically has determined that the proposed site is not located near or within the boundaries of any known Indian religious sites.

### 3.5 100-Year Floodplain

The conclusions of the literature and record search (FEMA/FIRM Community-Panel No. 22003C0160D indicate that the tower will be within the 100-year floodplain. The FEMA floodplain map shows that the tower structure will be located within the shaded flood zone AE with a no base flood elevation (BFE) determined. The compound area ground elevation is 112 feet asml.

#### 3.5.1 Mitigation

Mitigation refers to those actions that would reduce or eliminate potentially adverse impacts due to a proposed project. Mitigation measures are implemented to ensure that the construction of the facility is designed to withstand any potential flooding that may occur, and minimize any adverse effects on floodplain resources.

The Council on Environmental Quality (CEQ) has defined mitigation in 40 CFR Part 1508.20 to include: (1) Avoiding impacts; (2) minimizing impacts; (3) rectifying impacts; (4) reducing impacts over time; and (5) compensating for impacts. These mitigation measures can be categorized as avoidance, minimization, and compensation, and are described below as they pertain to the facility's potential location in a floodplain.

In most jurisdictions, non-residential construction within a 100-year floodplain is feasible and allowed if the FEMA-coordinated local ordinances are met and the structure meets requirements of

other local ordinances and guidelines. Usually, FEMA requires that the bottom member of the equipment platform be elevated to the BFE, and that the local government is given an opportunity to review the EA. Since this proposed action has required permitting in the flood zone, the design must meet federal guidelines (Section A (2)(i) of Executive Order No. 11988) and local ordinances.

There are generally two options for non-residential construction within a floodplain: 1) elevation of the structure foundation above BFE; or 2) flood-proofing the structure.

The current equipment at the site has been designed to by elevating the compound equipment to at least 114 feet amsl. This design will set the base elevation of the platform at minimum of 2.0-feet above the elevation of 112.0 foot amsl.

### 3.6 Surface Features

The conclusion of the literature and record search, as well as on-site observations, indicated that construction and operation of this communication site could have a potential to affect (e.g. wetland fill, deforestation, or water diversion) surface features found on the subject site. There are historically listed wetlands for the site area. PES noted no wetland vegetation or hydrology during the site visit. No wetland areas subject to regulation by the US Army Corps of Engineers will be affected by this construction.

### 3.7 Zoning/High Intensity White Lights

Based on the fact that the tower at this facility is proposed to be less than 521 feet in height above ground level, Federal Aviation Administration (FAA) rules are expected to include the need for lighting, but not high intensity white lights.

### 3.8 Radiation Exposure

The proposed tower is a 465 foot tall guyed tower of standard configuration. This facility is expected to meet the radio frequency radiation exposure limits standards established by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, Inc. (ANSI/IEEE) pursuant to Section 24.52 (a) of the FCC Rules. The facility is categorically excluded if all of the following are true:

- a) This facility will be operated in the Multipoint Distribution Service, Paging and Radiotelephone Service, Cellular Radiotelephone Service, Narrowband or Broadband PCS, Private Land Mobile Radio Services Paging Operations, Private Land Mobile Radio Service Specialized Mobile Radio, Local Multipoint Distribution Service, or service regulated under Part 74, Subpart I.

- b) This facility will not be mounted on a building
- c) The lowest point of the antenna will be at least 10 meters above the ground

A summary checklist for the above criteria is provided in Appendix A.

#### **4. COORDINATION AND COMMENTS**

This project was coordinated with the US Fish and Wildlife Service pursuant to Section 7 of the Endangered Species Act, with the LA Historic Preservation Department, pursuant to Section 106 of the National Historic Preservation Act, and other federal, state and local government guidelines and ordinances.

One criterion for choosing a suitable location includes the potential for causing public controversy. As of the date of this report, the proposed construction of this tower near St Amant has not resulted in controversy in the community.

FEMA has been contacted concerning their role in reviewing EAs. Due to FEMA's limited resources, environmental assessments do not require FEMA review. According to FEMA and the FCC, FEMA requires no review or notification concerning construction projects within a floodplain or velocity zone as determined by FIRM maps. However, FEMA requires that the project meet local ordinances for building within any area defined as a floodplain or velocity zone. FEMA provides consultation to local jurisdictions if guidelines are not available for construction within a floodplain or velocity zone.

#### **5. FINDING OF NO SIGNIFICANT IMPACT**

Based on the assessment of the above resource areas, it appears that the tower, operation, and maintenance of telecommunications equipment at the Crown site – Oakdale #870095 would not constitute a major federal action significantly affecting the quality of the human environment. For this reason and pursuant to the FCC regulations implementing NEPA, it is our opinion that no Environmental Impact Statement is required. Only the FCC can issue a Finding of No Significant Impact for this project.

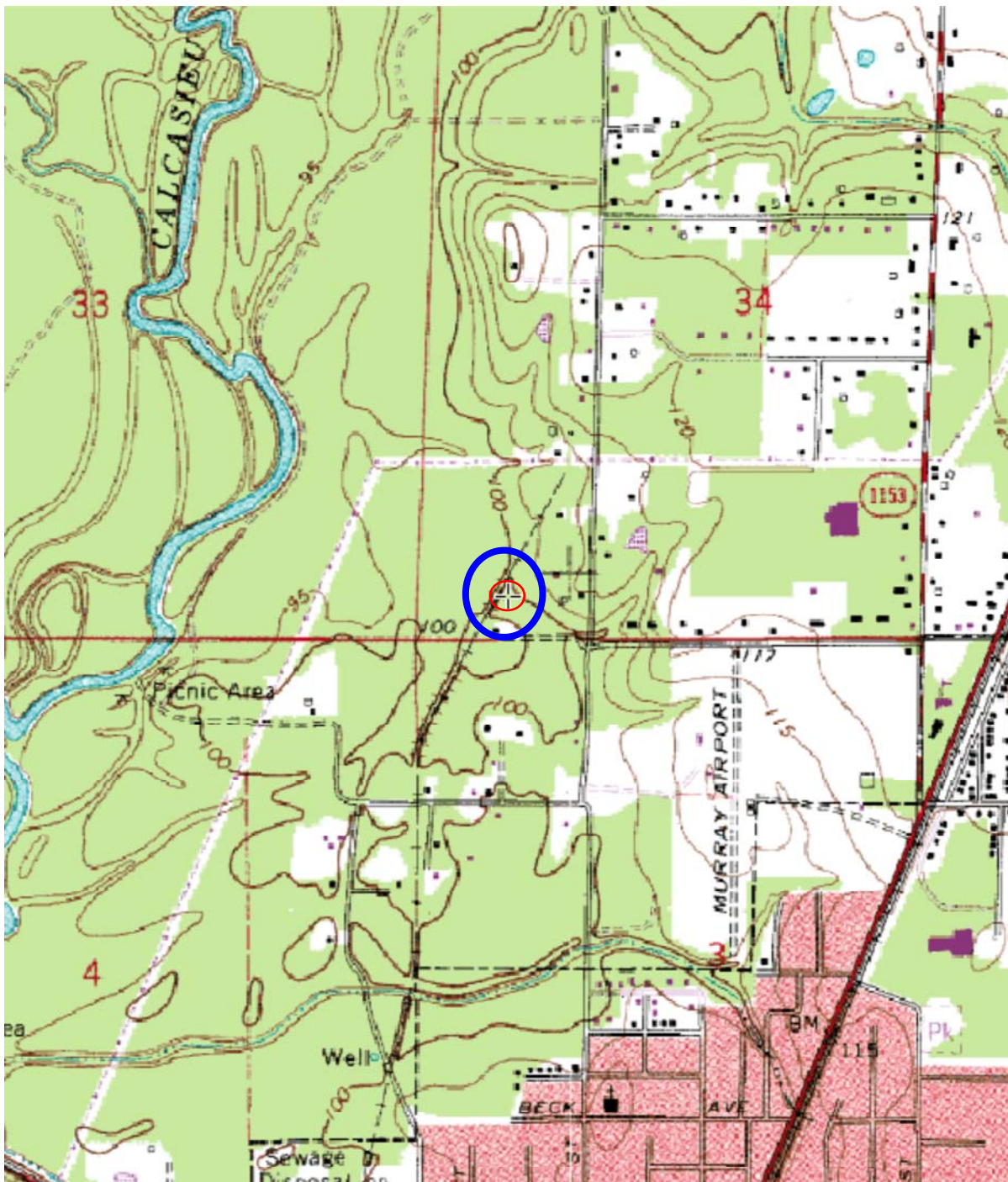
#### **6. REFERENCES**

FEMA Floodplain Map Panel #22003C0160D

NEPA – dated 6-13-12 – PES LLC



## FIGURES

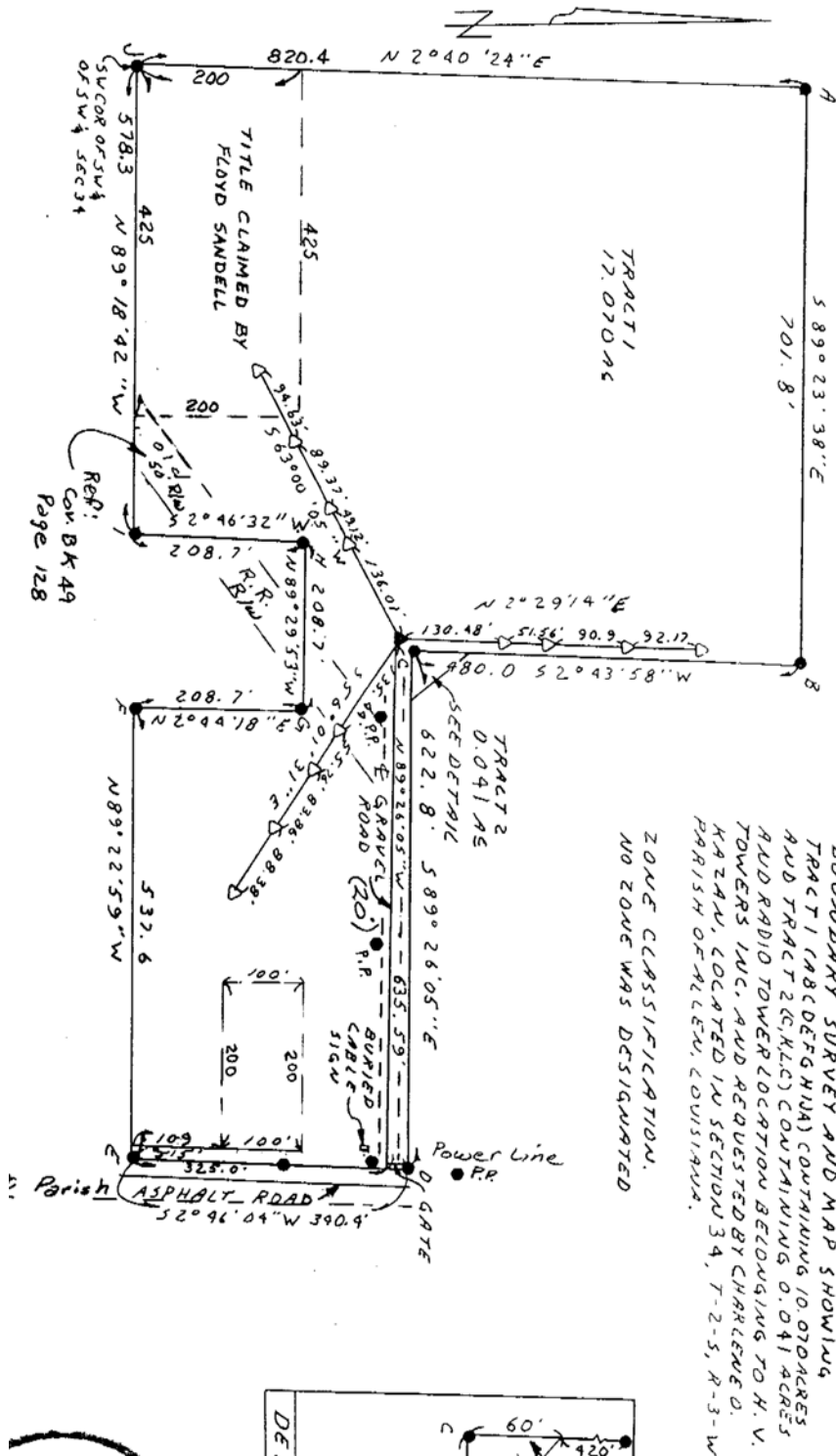


Center: 30.833°N 92.6684°W  
Elevation at center: 112 feet  
Quad: USGS Oakdale  
Drg Name: o30092g6  
Drg Source Scale: 1:24,000

PINNACLE TOWERS INC.  
OAKDALE AREA  
ALLEN PARISH, LOUISIANA

BOUNDARY SURVEY AND MAP SHOWING TRACT 1 (ABDEFGHIA) CONTAINING 10.07 ACRES AND TRACT 2 (C,KLC) CONTAINING 0.041 ACRES AND RADIO TOWER LOCATION BELONGING TO H. V. TOWERS INC. AND ACQUIRED BY CHARLES W. KATZ, LOCATED IN SECTION 34, T-2-S, R-3-W PARISH OF ALLEEN, LOUISIANA.

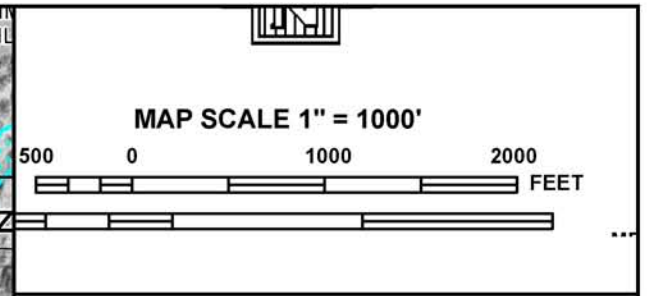
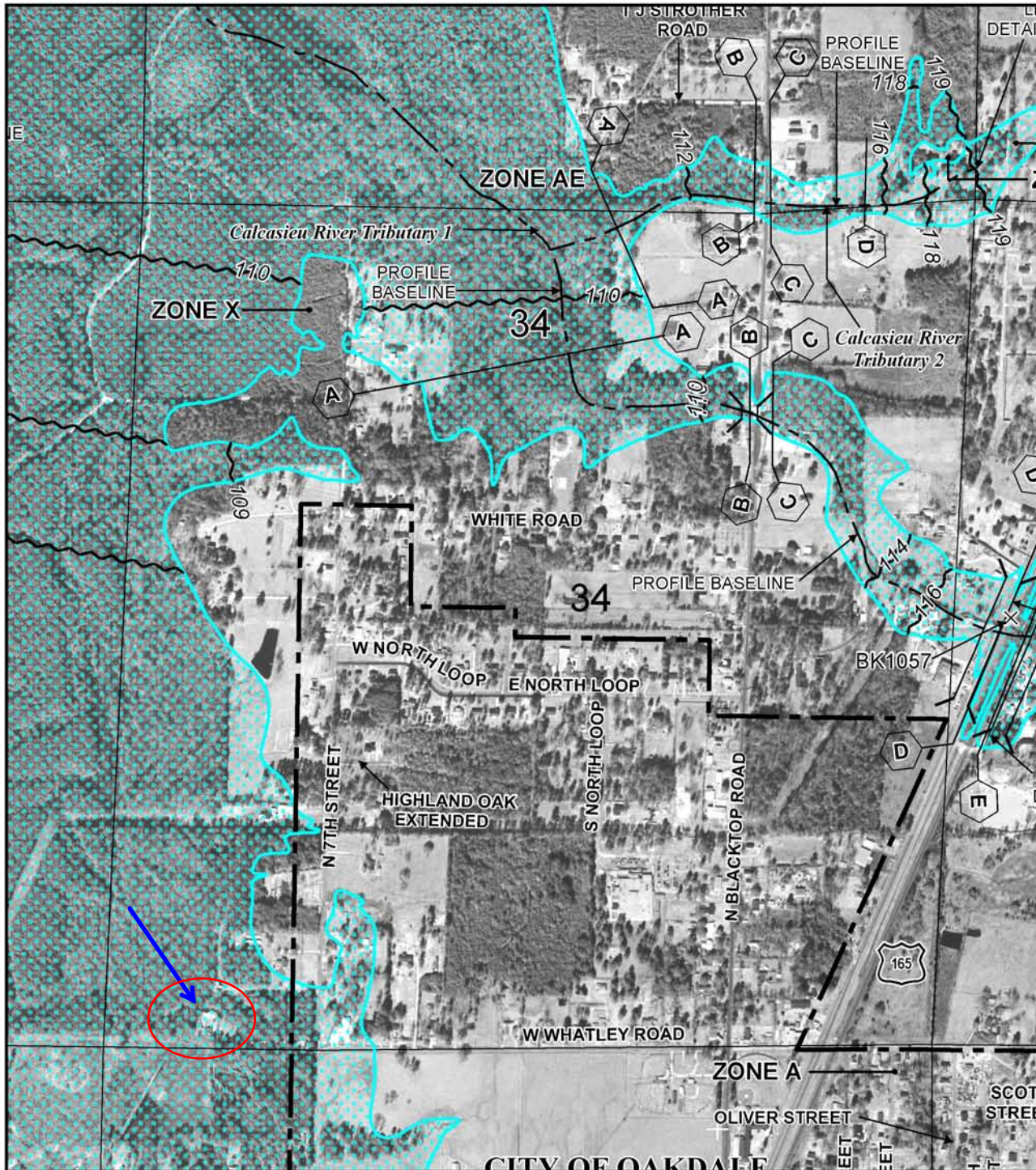
ZONE CLASSIFICATION.  
NO ZONE WAS DESIGNATED



## **APPENDIX A**

### **NEPA CHECKLIST & BACKUP DOCUMENTATION**





NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0160D

# FIRM

## FLOOD INSURANCE RATE MAP

ALLEN PARISH,  
LOUISIANA  
AND INCORPORATED AREAS

PANEL 160 OF 600  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

### CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALLEN PARISH	220009	0160	D
OAKDALE, CITY OF	220011	0160	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER  
22003C0160D  
EFFECTIVE DATE  
MARCH 17, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

**CROWN CASTLE USA  
FCC / NEPA ENVIRONMENTAL COMPLIANCE CHECKLIST**

<b>Site Name:</b>	<u>Oakdale</u>	<b>Contact Person:</b>	<u>Lisa Buenaventura</u>
<b>BU#:</b>	<u>870095</u>	<b>Contact Number:</b>	<u>724-416-2000</u>

- | <u><b>YES</b></u>                   | <u><b>NO</b></u>                    |   |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1. A site inspection has been performed specifically for the information required in items 2-8 and 11.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 2. Will the facility be located in an officially designated wilderness area?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 3. Will the facility be located in an officially designated wildlife preserve?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 4. Will the facility affect federally listed, threatened or endangered species or designated critical habitats or is the facility likely to jeopardize the continued existence of any federally proposed endangered or threatened species or likely to result in the destruction or adverse modification of federally proposed critical habitats? |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 5. Will the facility affect districts, sites, buildings, structures, objects or other cultural resources listed, or eligible for listing, in the National Register of Historic Places?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6. Will the facility affect Indian religious sites?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 7. Will the facility be located in a 100-year flood plain?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 8. Will the construction of the facility involve a significant change in the surface features (e.g., wetland fill, deforestation, or water diversion)?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 9. Will the antenna tower and/or supporting structure be equipped with high intensity white lights and be located in a residential neighborhood, as defined by local zoning laws?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. Will the proposed facility fall outside the categorical exclusions contained in Table 1 of 47 CFR Section 1.1307(b) (1)?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 11. Will the proposed facility be constructed within one (1) mile of the centerline of a National Scenic Trail and has the Trail Management Office indicated that the proposed construction will have a significant adverse effect?   |

**A COPY OF A COMPLETED CROWN CASTLE INTERNATIONAL CORPORATION FCC ENVIRONMENTAL COMPLIANCE SURVEY DOCUMENTING THE PROCESS USED IN ARRIVING AT THE ABOVE ANSWERS MUST BE ATTACHED TO THIS FORM. IF ALL OF THE QUESTIONS ABOVE WERE ANSWERED "NO", NO FURTHER ACTION IS REQUIRED FOR FCC ENVIRONMENTAL PURPOSES. IF ANY OF THE QUESTIONS WERE ANSWERED "YES" WITH THE EXCEPTION OF #1, AN ENVIRONMENTAL ASSESSMENT MUST BE PREPARED AND FILED WITH THE FCC. IN ACCORDANCE WITH APPLICABLE CROWN PROCEDURES. NO CONSTRUCTION MAY BEGIN UNTIL THE FCC HAS REVIEWED THE ASSESSMENT AND APPROVED THE PROPOSAL.**



\_\_\_\_\_  
Name  
PES LLC  
Company Name

\_\_\_\_\_  
6-13-12  
Date



**Crown Castle USA**  
**FCC Environmental Compliance Survey**

Site Name: **Oakdale**

Location: **1117 North 7<sup>th</sup> Ave in Oakdale, LA**

Business Unit Number: **870095**

This Survey will identify whether a proposed facility will require the preparation and filing of an FCC Environmental Assessment. In completing the survey, the consultant may analyze accurate, up-to-date information obtained from a commercial service in conjunction with consultation with the appropriate agencies and sources listed below. Unless otherwise specified, the consultant is not required to consult each of the listed agencies. A site inspection must be performed in all cases. This Survey supports the completion of the FCC/NEPA Environmental Compliance Checklist and shall be attached as an addendum to the Checklist.

Answer "yes/no" questions only after completing the enumerated steps.

**Yes**   **No**

☐   ☒   **1.   A site inspection has been performed specifically for the information required in items 2-8 and 11. – [NEPA Screen only](#)**

☐   ☒   **2.   Based upon information provided by a commercial service or consultation with the National Park Service (Department of Interior), U.S. Fish and Wildlife Service (Department of Interior), Bureau of Land Management (Department of Interior) and the U.S. Forest Service (Department of Agriculture), as appropriate, will the facility be located in an officially designated wilderness area? [None listed in database.](#)**

2(a)   Contact National Park Service.  
National Park Service Contact Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_

2(b)   Contact U.S. Fish and Wildlife Service.  
U.S. Fish and Wildlife Service Contact Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_

- 2(c) Contact U.S. Forest Service.  
U.S. Forest Service Contact Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_
- 2(d) Contact Bureau of Land Management.  
Bureau of Land Management Contact Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_
- 2(e) If contact with National Park Service reveals a wilderness area in a National Park, contact specific National Park Superintendent.  
National Park Superintendent Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_
- 2(f) If contact with the U.S. Fish and Wildlife Service reveals a wilderness area in a National Wildlife Refuge, contact specific Wildlife Refuge Manager.  
Wildlife Refuge Manager Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_
- 2(g) If contact with the U.S. Forest Service reveals a wilderness in a National Forest, contact National Forest Director.  
National Forest Director Name: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_

If the yes/no answer was based in whole or in part upon information provided by a commercial service, specify the name of the service, the contact person, the dates of contact, and provide all correspondence to/from the service.

Commercial Service: **InfoMap Technologies**

Contact Name: **Kevin**

Date(s): **6-13-12**

Comments: **No listings noted near site (1.0 miles)**



☐☒

3. Based upon information provided by a commercial service, or consultation with the U.S. Fish and Wildlife Service (Department of Interior) and state and local wildlife preservation agencies, will the facility be located in an officially designated wildlife preserve? None listed in database

3(a) Contact U.S. Fish and Wildlife Service and consult the Division of Realty's National Refuge System list.

U.S. Fish and Wildlife Service Contact Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Date(s): \_\_\_\_\_

Comments: \_\_\_\_\_

3(b) If contact with U.S. Fish and Wildlife Service reveals a National Wildlife Refuge, contact specific Wildlife Refuge Manager.

Date(s): \_\_\_\_\_

Comments: \_\_\_\_\_

3(c) Contact state and local government wildlife preservation offices.

Contact Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Date(s): \_\_\_\_\_

Comments: \_\_\_\_\_

If the yes/no answer was based in whole or in part upon information provided by a commercial service, specify the name of the service, the contact person, the dates of contact, and provide all correspondence to/from the service.

Commercial Service: InfoMap Technologies

Contact Name: Kevin

Date(s): 6-13-12

Comments: No listings noted near site (1.0 miles)

☐☒

4. Will the facility affect listed or proposed threatened or endangered species (collectively, "Protected Species") or designated critical habitats? The following species are listed for the county: Red cockaded Woodpecker, Spragues Pipit, American Chafseed, Louisiana Black Bear. These species are not likely to occur at the existing tower site. Given the site is an existing tower on a developed parcel, the project is unlikely to affect these species.

4(a) Review the US Fish and Wildlife Service ("USFWS") and the applicable state environmental agency listings of Protected Species and critical habitats located within the county where the site is located. Attach a copy of any listing for the county in question.

- 4(b) If review of the USFWS and state agency listings of Protected Species and critical habitats indicates a listed or proposed species or habitat may be present, a biologist must perform a site inspection and provide an informal biological assessment report including a determination as to whether the Protected Species or critical habitat is present at the site and whether it will be affected by the project.

☐☒

5. **Based upon consultation with the State Historic Preservation Office (“SHPO”) in accordance with the PA, and taking into consideration the views of interested persons, will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archeology, engineering or culture, that are listed, or eligible for listing, in the National Register of Historic Places? If the SHPO issues a “no effect” or “no adverse effect” letter, this question can be answered “yes.” If the SHPO issues an “adverse effect” finding, this question must be answered “yes.”** *The original tower was built in 1996, before the March 2001 NPA, and is exempted for review under the terms of the NPA. Additionally, the new tower is a like-for-like swap out of towers, which is also exempted under the NPA. There is no planned expansion to the tower or compound (substantial increase), the tower has not been determined to have an effect on any NR site by the FCC, there is no pending SHPO review of the tower, and there has been no known complaint from the SHPO or public for this tower. There are no NR or NRE sites listed within a 1.5 mile radius (APE) of the tower. No further consultation is required.*

☐☒

6. **Based upon consultation with the Tribal Historical Preservation Officer (“THPO”) or other official representatives of federally recognized tribes, will the proposed construction affect places or properties of significance to such tribes, including Indian religious sites?** *There will be no ground disturbance outside the current lease area. No tribal consultation is required.*

- 6(a) If the proposed facility is NOT located on tribal land or an Indian reservation:

- i. Determine whether any federally recognized Indian tribe or Native Hawaiian Organization (NHO) with ancestral ties to the immediate area of the proposed project wishes to participate in the Section 106 consultation process for the proposed project.
  - A. Enter information about the proposed construction into the FCC’s Tower Construction Notification System (TCNS) in order to contact the appropriate Tribes and attach FCC Form 620 or Form 621. Provide the CCUSA Regulatory Department ([regulatory.department@crowncastle.com](mailto:regulatory.department@crowncastle.com)) with the TCNS filing number. Please put “TCNS” in the “RE” line.

- B. After thirty (30) days have passed, by either email or letter (template located in Appendix D), contact any Tribes that have not responded.

After an additional ten (10) days with no response, notify Crown Castle's corporate Regulatory Department (regulatory.department@crowncastle.com). Email all evidence of attempts to contact the non-responsive Tribes, including a PDF of all TCNS emails, copies of the associated letters and Forms 620 or 621.

- C. The CCUSA regulatory department will provide notice to the FCC of any tribal non-response. The FCC will initiate contact with the Tribe. If the subject Tribe does not respond within twenty (20) days of the FCC's communication, no further due diligence is required for that particular Tribe.
- D. This section number 6 may be answered "no" only after each subject Tribe either, (i) concurs with Crown Castle's proposed project, or (ii) all of the above steps are completed.

**6(b) If the proposed facility IS located on tribal land or reservation:**

- i. Consult the Advisory Council on Historic Preservation, the Bureau of Indian Affairs, or the National Park Service to determine the name of the THPO or tribal representative.

Contact: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_

- ii. Begin consultation with the THPO or tribal representative in writing in accordance with 6(a) (1)-(6) above.

Provide copies of all correspondence from all parties contacted.



**7. Based upon FEMA's Flood Insurance Rate Map ("FIRM") will the facility be located in a 100-year flood plain? If FIRMs are not available for the community where the site is located, consult other sources in accordance with FEMA guidelines. [In Zone AE – FIRM# 22003C0160D – within the 100-year flood zone \(no BFEs determined\) – an EA & FONSI will be required.](#)**

7(a) Review FEMA's FIRM.

Attach relevant portion of map.

7(b) If a review of the map indicates that the site is on a border of a 100- year floodplain and the site's precise location cannot be reasonably determined

using the map, consult with FEMA or its local delegate to determine whether the facility will be located within the 100-year floodplain.

In the event that a written statement is obtained from FEMA or the local agency delegated authority to implement the National Flood Insurance Program, stating that the area is no longer within the 100-year floodplain, the facility will not be considered to be within the 100-year floodplain for the purpose of the Checklist (attach correspondence, if applicable).

- ☐ ☒ 8. **Based upon consultation with the appropriate agency, will construction of the facility involve a significant change in surface features (e.g. wetland fill, deforestation, or water diversion)?** *The site is not listed as within a listed wetland system*

- 8(a) Review the National Wetlands Inventory or obtain information from a commercial service to determine if a wetland is identified on the property.
- 8(b) Perform a site inspection to identify evidence of wetland conditions on the property.
- 8(c) Review the Soil Conservation Service County maps to determine soil type, vegetation type and hydrology of the property.
- 8(d) If a wetland is identified or water diversion will occur on the property, consult the Army Corps of Engineers (“ACOE”) regarding the effect of wetland fill or water diversion.  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_
- 8(e) If forests will be cleared, consult with U.S. Forest Service regarding effect of deforestation.  
Date(s): \_\_\_\_\_  
Comments: \_\_\_\_\_

- ☐ ☒ 9. **Will the antenna tower and/or supporting structure be equipped with high intensity white lights and be located in a residential neighborhood, as defined by applicable zoning laws?** *No issues as per Crown Castle*

- 9(a) Contact the CCUSA representative to determine whether the site must have high intensity white lights. (Towers under 500 feet will not require high intensity lighting.)
- 9(b) If the tower is greater than 500 feet, contact the local zoning authority to determine the zoning of the proposed site.

☐ ☒ 10. Based upon the power, frequency and description of antenna provided by the carrier to the CCUSA representative, will the proposed facility fall outside the categorical exclusions contained in Table 1 of 47 CFR Section 1.1307(b) (1)? *No issues as per Crown Castle*

☐ ☒ 11. Based upon review of the National Park Service database at <http://www.nps.gov/carto/TRAILMAP.html>, and information provided by a commercial service, will the tower be constructed within one (1) mile of the centerline of a National Scenic Trail? *No trails Noted on National database*

11(a) If the proposed tower is located within one (1) mile of the centerline of a National Scenic Trail, the applicable trail management organization must be notified using the CCUSA template letter no later than five (5) days after the first zoning or permit application is filed. If zoning approval is not required, the notification must be made at least 45 days before any planned construction.

11(b) Once notified, the trail management organization has fifteen (15) days to provide its determination as to whether there will be a significant adverse effect.

11(c) If the trail management organization indicates that the proposed construction will have a significant adverse effect, CCUSA must consult with the trail management organization to evaluate possible mitigation. The minimum consultation period is fifteen (15) days.

11(d) If agreement is reached, the trail management organization will provide a certification letter to CCUSA. If no agreement is reached, the trail management organization cannot block the construction of the tower. However, the trail management organization could request that the FCC require CCUSA to submit an Environmental Assessment.

\*\*\*\*

**If you have answered yes to any of the yes/no questions, an FCC Environmental Assessment (EA) must be filed with the FCC and a Finding of No Significant Impact granted per the applicable CCUSA Regulatory Procedures prior to proceeding with any construction.**



\_\_\_\_\_  
Signature

6-13-12  
Date

\_\_\_\_\_  
President

\_\_\_\_\_  
Title

\_\_\_\_\_  
PES LLC

\_\_\_\_\_  
Company



## **RF VERIFICATION**

For purposes of tower construction and compliance with the requirements and standards set forth by the Federal Communications Commission (FCC) in 47 CFR Section 1.1301 et seq., Crown Castle International Corp., based on information provided by the carrier, evaluates whether the proposed tower will fall outside the categorical exclusions as set forth by Table 1 of 47 CFR Section 1.1307 (b) (1) (a).

Table I provides as follows:

Table 1--Transmitters, Facilities and Operations Subject to Routine Environmental Evaluation (Not Categorically Excluded)

Service (title 47 CFR rule part)	Evaluation required if
Experimental Radio Services (part 5).	Power > 100 W ERP (164 W EIRP)
Multipoint Distribution Service (subpart K of part 21)	<p><i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna &lt;10 m and power &gt; 1640 W EIRP</p> <p><i>Building-mounted antennas:</i> power &gt; 1640 W EIRP</p> <p>MDS licensees are required to attach a label to subscriber transceiver or transverter antennas that:</p> <p>(1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and references the applicable FCC- adopted limits for radiofrequency exposure specified in Sec. 1.1310.</p>
Paging and Radiotelephone Service (subpart E of part 22)	<p><i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna 10 m and power &gt; 1000 W ERP (1640 W EIRP)</p> <p><i>Building-mounted antennas:</i> power &gt; 1000 W ERP (1640 W EIRP)</p>
Cellular Radiotelephone Service (subpart H of part 22)	<p><i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna &lt; 10 m and total power of all channels &gt; 1000 W ERP (1640 W</p>

	<p>EIRP)</p> <p><i>Building-mounted antennas</i>: total power of all channels &gt; 1000 W (1640 W EIRP)</p>
Personal Communications Services (part 24).	<p>(1) Narrowband PCS (subpart D): <i>non-building-mounted antennas</i>: height above ground level to lowest point of antenna &lt; 10 m and total power of all channels &gt; 1000 W ERP (1640 W EIRP)</p> <p><i>Building-mounted antennas</i>: total power of all channels &gt; 1000 W ERP (1640 W EIRP)</p> <p>(2) Broadband PCS (subpart E): <i>non-building-mounted antennas</i>: height above ground level to lowest point of antenna &lt; 10 m and total power of all channels &gt; 2000 W ERP (3280 W EIRP)</p> <p><i>Building-mounted antennas</i>: total power of all channels &gt; 2000 W ERP (3280 W EIRP)</p>
Satellite Communications (part 25)	<p>All included. In addition, for NGSO subscriber equipment, licensees are required to attach a label to subscriber transceiver antennas that: (1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and (2) references the applicable FCC- adopted limits for radiofrequency exposure specified in Sec. 1.1310 of this chapter.</p>
General Wireless Communications Service (part 26)	<p>Total power of all channels &gt;1640 W EIRP</p>
Wireless Communications Service (part 27)	<p>(1) for the 1390 – 1392 MHz, 1392 – 1395 MHz, 1432 – 1435 MHz, 1670 – 1675 MHz and 2385 – 2390 MHz bands:</p> <p><i>Non-building-mounted antennas</i>: height above ground level to lowest point of antenna &lt; 10 m and total power of all channels &gt; 2000 W ERP (3280 W EIRP)</p> <p><i>Building-mounted antennas</i>: total power of all</p>



	<p>channels &gt; 2000 ERP (3280 EIRP)</p> <p>(2) for the 698 -764 MHz, 746 – 764 MHz, 776 – 794 MHz, 2305 – 2320 MHz and 2345 – 2360 MHz bands – total power of all channels &gt; 1000 W ERP (1640 W EIRP)</p>
Radio Broadcast Services (part 73)	All included
Experimental, auxiliary, and special broadcast and other program, distributional services (part 74)	<p>Subparts A, G, L: power &gt; 100 W ERP</p> <p>Subpart I: <i>non-building-mounted antennas</i>: height above ground level to lowest point of antenna &lt; 10 m and power &gt; 1640 W EIRP</p> <p><i>Building-mounted antennas</i>: power &gt; 1640 W EIRP</p> <p>ITFS licensees are required to attach a label to subscriber transceiver or transverter antennas that:</p> <p>(1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and (2) references the applicable FCC-adopted limits for radiofrequency exposure specified in Sec. 1.1310.</p>
Stations in the Maritime Services (part 80).	Ship earth stations only
Private Land Mobile Radio Services Paging Operations). (part 90)	<p><i>Non-building-mounted antennas</i>: height above ground level to lowest point of antenna &lt; 10 m and power &gt; 1000 W ERP (1640 W EIRP)</p> <p><i>Building-mounted antennas</i>: power &gt; 1000 W ERP (1640 W EIRP)</p>
Private Land Mobile Radio Services Specialized Mobile Radio (part 90)	<p><i>Non-building-mounted antennas</i>: height above ground level to lowest point of antenna &lt; 10 m and total power of all channels &gt; 1000 W ERP (1640 W EIRP)</p> <p><i>Building-mounted antennas</i>: Total power of all channels &gt; 1000 W ERP (1640 W EIRP)</p>

Amateur Radio Service (part 97).....	Transmitter output power > levels specified in Sec. 97.13(c)(1) of this chapter
Local Multipoint Distribution Service (subpart L of part 101) and 24 GHz (subpart G of part 101).	<p><i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna &lt; 10 m and power&gt;1640 W EIRP</p> <p><i>Building-mounted antennas:</i> power &gt;1640 W EIRP</p> <p>LMDS and 24 GHz licensees are required to attach a label to subscriber transceiver antennas that: (1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and (2) references the applicable FCC-adopted limits for radio-frequency exposure specified in Sec. 1.1310</p>

Based on the above criteria, the proposed service at this tower is categorically excluded from further environmental evaluation under 47 C.F.R. Section 1.1307.

CROWN CASTLE - \_\_\_\_\_AREA

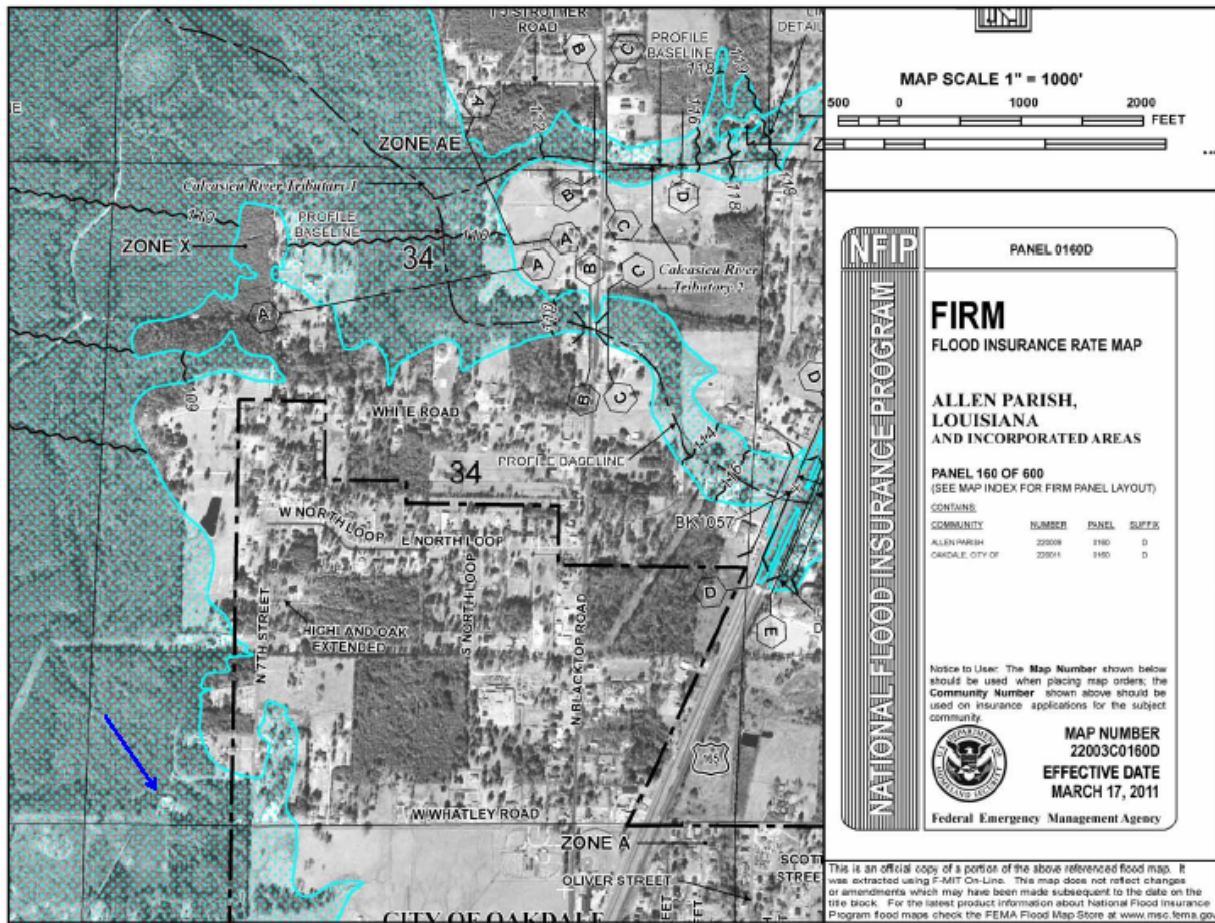
By:\_\_\_\_\_

Title:\_\_\_\_\_

Date:\_\_\_\_\_

Tower BUN:\_\_\_\_\_







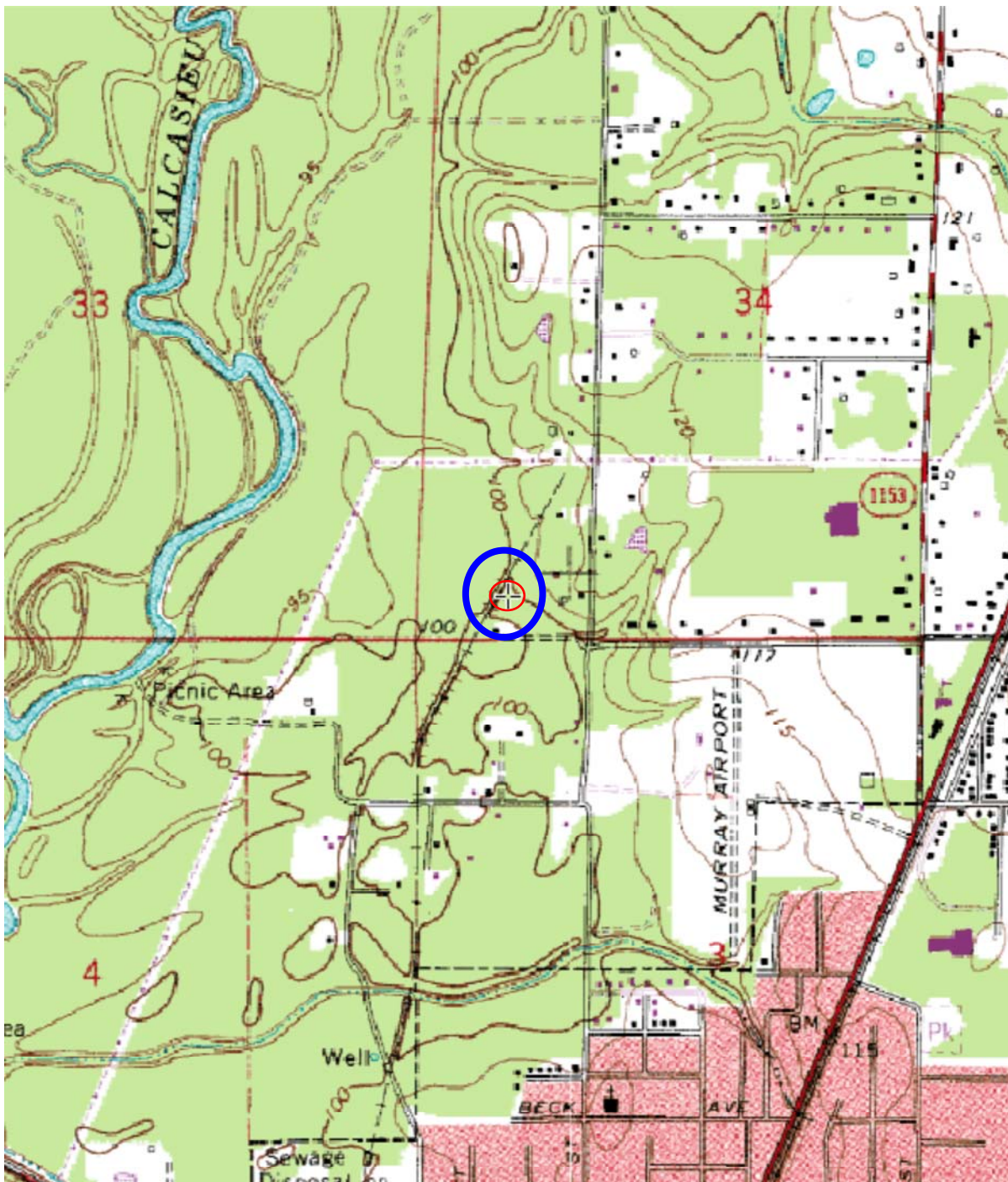


View of tower



View of compound





Center: 30.833°N 92.6684°W  
Elevation at center: 112 feet  
Quad: USGS Oakdale  
Drg Name: o30092g6  
Drg Source Scale: 1:24,000

**InfoMap**  
Technologies Incorporated

# Environmental FirstSearch™ Report

Target Property:

**1117 NORTH 7TH AVE**

**OAKDALE LA 71463**

Job Number: 870095

**PREPARED FOR:**

PES, LLC

205 Groff Road

Quarryville, PA 17566

Oakdale #870095

06-13-12



*Tel: (610) 430-7530*

*Fax: (610) 430-7535*

# ***Environmental FirstSearch Search Summary Report***

**Target Site:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

## **FirstSearch Summary**

<b>Database</b>	<b>Sel</b>	<b>Updated</b>	<b>Radius</b>	<b>Site</b>	<b>1/8</b>	<b>1/4</b>	<b>1/2</b>	<b>1/2&gt;</b>	<b>ZIP</b>	<b>TOTALS</b>
State ACEC	Y	NA	0.50	0	0	0	0	-	1	1
Wetlands	Y	11-20-00	0.15	0	0	0	-	-	0	0
Floodplains	Y	09-01-98	0.15	1	0	0	-	-	0	1
Historic Landmarks	Y	03-30-12	1.00	0	0	0	0	0	1	1
Federal Land Use	Y	08-01-06	1.00	0	0	0	0	0	2	2
- TOTALS -				1	0	0	0	0	4	5

## **Notice of Disclaimer**

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to InfoMap Technologies, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in InfoMap Technologies's databases. All EPA sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent NPL and state landfill the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

## **Waiver of Liability**

Although InfoMap Technologies uses its best efforts to research the actual location of each site, InfoMap Technologies does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of InfoMap Technologies's services proceeding are signifying an understanding of InfoMap Technologies's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.



***Environmental FirstSearch  
Site Information Report***

**Request Date:** 06-13-12  
**Requestor Name:** PES  
**Standard:** NEPA

**Search Type:** COORD  
**Job Number:** 870095

**Target Site:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

***Demographics***

<b>Sites:</b> 5	<b>Non-Geocoded:</b> 4	<b>Population:</b> NA
<b>Radon:</b> NA		

***Site Location***

	<u><b>Degrees (Decimal)</b></u>	<u><b>Degrees (Min/Sec)</b></u>		<u><b>UTMs</b></u>
<b>Longitude:</b>	-92.668388	-92:40:6	<b>Easting:</b>	531713.457
<b>Latitude:</b>	30.833027	30:49:59	<b>Northing:</b>	3410961.124
<b>Elevation:</b>	100		<b>Zone:</b>	15

***Comment***

**Comment:** ALLEN COUNTY

***Additional Requests/Services***

**Adjacent ZIP Codes:** 0 Mile(s)

**Services:**

ZIP Code	City Name	ST	Dist/Dir	Sel

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

Oakdale #870095  
1117 North 7th Ave  
Oakdale, LA 71463  
FEMA# 22003C0160D



Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the [IPaC](#) application.

County: Allen, LA

Group	Name	Population	Status	Lead Office	Recovery Plan Name	Recovery Plan Action Status	Recovery Plan Stage
Birds	<a href="#">Red-cockaded woodpecker</a> ( <a href="#">Picoides borealis</a> )		Endangered	<a href="#">Mississippi Ecological Services Field Office</a>	<a href="#">Red-cockaded Woodpecker Recovery Plan, Second Revision</a>	<a href="#">View Implementation Progress</a>	Final Revision 2
	<a href="#">Sprague's pipit</a> ( <a href="#">Anthus spragueii</a> )		Candidate	<a href="#">North Dakota Ecological Services Field Office</a>	-	-	-
Flowering Plants	<a href="#">American chaffseed</a> ( <a href="#">Schwalbea americana</a> )		Endangered	<a href="#">New Jersey Ecological Services Field Office</a>	<a href="#">American Chaffseed (Schwalbea americana) Recovery Plan</a>	<a href="#">View Implementation Progress</a>	Final
Mammals	<a href="#">Louisiana black bear</a> ( <a href="#">Ursus americanus luteolus</a> )		Threatened	<a href="#">Louisiana Ecological Services Field Office</a>	<a href="#">Louisiana Black Bear</a>	<a href="#">View Implementation Progress</a>	Final

Export options: [CSV](#) | [EXCEL](#) | [XML](#) | [PDF](#)

Last updated: June 13, 2012

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***Environmental FirstSearch  
Sites Summary Report***

**Target Property:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

**JOB:** 870095  
ALLEN COUNTY

**TOTAL:** 5      **GEOCODED:** 1      **NON GEOCODED:** 4      **SELECTED:** 5

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID	ElevDiff
1	FLOODPLAIN	FEMA FLOOD PLAIN 67/100 YEAR	LA	0.00 --	1	N/A

***Environmental FirstSearch  
Sites Summary Report***

**Target Property:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

**JOB:** 870095  
ALLEN COUNTY

**TOTAL:** 5      **GEOCODED:** 1      **NON GEOCODED:** 4      **SELECTED:** 5

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID	ElevDiff
2	ACEC	US FISH and WILDLIFE ENDANGERE USFWS-71463/NEPA CONTACT	UNKNOWN LA 71463	NON GC		N/A
2	HISTSITE	STATE HISTORIC SITES CONTACT I SHPO-71463	UNKNOWN LA 71463	NON GC		N/A
3	LANDUSE	ENDANGERED SPECIES 22003-71463/NEPA	UNKNOWN OAKDALE LA 71463	NON GC		N/A
3	LANDUSE	BUREAU OF INDIAN AFFAIRS CONTA BIA-71463	UNKNOWN LA 71463	NON GC		N/A

***Environmental FirstSearch  
Site Detail Report***

**Target Property:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

**JOB:** 870095  
ALLEN COUNTY

**FLOODPLAIN**

<b>SEARCH ID:</b> 1	<b>DIST/DIR:</b> 0.00 --	<b>ELEVATION:</b>	<b>MAP ID:</b> 1
---------------------	--------------------------	-------------------	------------------

**NAME:** FEMA FLOOD PLAIN  
**ADDRESS:**

**REV:**  
**ID1:** 67  
**ID2:** 68  
**STATUS:** 100 YEAR  
**PHONE:**

**CONTACT:**  
**SOURCE:**

**ZONE DESIGNATION:** A

AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED.

**AREA:** 0.00117169  
**PERIMETER:** 0.29927  
**FIPS:** 22003  
**COMMUNITY:** 0009  
**FIRM PANEL:** 22003C0160D  
**QUAD:** 30092-G6  
**FLOODWAY:**  
**COBRA:** COBRA\_OUT  
**SFHA:** IN  
**SYMBOL:** 3  
**PANEL TYPE:** CBPP  
**STATE FIPS:** 22  
**COUNTY FIPS:** 003  
**PCOMM:** 0009  
**PANEL:** 0045B  
**QUAD UNIT:** G6

***Environmental FirstSearch  
Site Detail Report***

**Target Property:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

**JOB:** 870095  
ALLEN COUNTY

ACEC

<b>SEARCH ID:</b> 2	<b>DIST/DIR:</b> NON GC	<b>ELEVATION:</b>	<b>MAP ID:</b>
---------------------	-------------------------	-------------------	----------------

<b>NAME:</b> US FISH and WILDLIFE ENDANGERED SPECIES CONTACT INFO <b>ADDRESS:</b> UNKNOWN LA 71463 ALLEN <b>CONTACT:</b> <b>SOURCE:</b> USFWS	<b>REV:</b> 09/15/10 <b>ID1:</b> USFWS-71463 <b>ID2:</b> <b>STATUS:</b> NEPA CONTACT <b>PHONE:</b>
--	--

**US FISH and WILDLIFE ENDANGERED SPECIES CONTACT INFORMATION**

<b>OFFICE:</b> <b>ADDRESS:</b>  <b>PHONE:</b> <b>FAX:</b>	Lafayette Field Office 646 CAJUNDOME BOULEVARD, SUITE 400 LAFAYETTE LA 70506-4290 337 291-3100 337 291-3139
---	---

HISTSITE

<b>SEARCH ID:</b> 3	<b>DIST/DIR:</b> NON GC	<b>ELEVATION:</b>	<b>MAP ID:</b>
---------------------	-------------------------	-------------------	----------------

<b>NAME:</b> STATE HISTORIC SITES CONTACT INFORMATION <b>ADDRESS:</b> UNKNOWN LA 71463 ALLEN <b>CONTACT:</b> <b>SOURCE:</b> NATIONAL PARK SERVICE	<b>REV:</b> 09/15/10 <b>ID1:</b> SHPO-71463 <b>ID2:</b> <b>STATUS:</b> <b>PHONE:</b>
--	--

**STATE HISTORIC SITES CONTACT INFORMATION**

<b>OFFICE:</b> <b>ADDRESS:</b>  <b>PHONE:</b> <b>FAX:</b>	DEPT OF CULTURE, RECREATION and TOURISM P.O. BOX 44247 BATON ROUGE LA 70804 225-342-8160 225-342-8173
---	---

***Environmental FirstSearch  
Site Detail Report***

**Target Property:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

**JOB:** 870095  
ALLEN COUNTY

LANDUSE

**SEARCH ID:** 5      **DIST/DIR:** NON GC      **ELEVATION:**      **MAP ID:**

**NAME:** ENDANGERED SPECIES  
**ADDRESS:** UNKNOWN  
OAKDALE LA 71463  
ALLEN  
**CONTACT:**  
**SOURCE:** EPA

**REV:** 12/31/99  
**ID1:** 22003-71463  
**ID2:** 22003  
**STATUS:** NEPA  
**PHONE:**

ENDANGERED SPECIES INFORMATION IS OBTAINED AT THE COUNTY LEVEL AND MAY OR MAY NOT BE APPLICABLE TO THIS TARGET SITES.

**OFFICE CONTACT INFO**

**REGION CONTACT:** JASON DUKE  
**REGION OFFICE:** U.S. FISH and WILDLIFE SERVICE SOUTHEAST REGION - SCIENCE APPLICATIONS  
**REGION ADDRESS:** 446 NEAL STREET , COOKEVILLE, TN 38501-4027      446 NEAL STREET, COOKEVILLE, TN 38501-4027  
**PHONE:** (931) 525-4986  
**FAX:** (931) 528-7075

LANDUSE

**SEARCH ID:** 4      **DIST/DIR:** NON GC      **ELEVATION:**      **MAP ID:**

**NAME:** BUREAU OF INDIAN AFFAIRS CONTACT INFORMATION  
**ADDRESS:** UNKNOWN  
LA 71463  
ALLEN  
**CONTACT:**  
**SOURCE:**

**REV:** 01/15/08  
**ID1:** BIA-71463  
**ID2:**  
**STATUS:**  
**PHONE:**

**BUREAU OF INDIAN AFFAIRS CONTACT INFORMATION**

**OFFICE:** Eastern Regional Office  
**CONTACT:** FRANKLIN KEEL, REGIONAL DIRECTOR  
**ADDRESS:** 545 MARRIOTT DR, SUITE 700  
Nashville TN 37214  
**PHONE:** Phone: 615-564-6700  
**FAX:** Fax: 615-564-6701

The Native American Consultation Database (NACD) is a tool for identifying consultation contacts for Indian tribes, Alaska Native villages and corporations, and Native Hawaiian organizations. The database is not a comprehensive source of information, but it does provide a starting point for the consultation process by identifying tribal leaders and NAGPRA contacts. This database can be accessed online at the following web address  
<http://home.nps.gov/nacd/>



## Environmental FirstSearch Descriptions

**State ACEC: LDWF** WILDLIFE MANAGEMENT AREA (WMA) REFUGES - Database of approximately 1.4 million acres of Wildlife Management Areas (WMAs) and Refuges throughout the state that are managed by the LDWF.

**State ACEC: USFWS** US FISH AND WILDLIFE CONTACT INFORMATION - database of contact information for the US Fish and Wildlife Service loaded by zipcode.

**Wetlands: US FWS** NATIONAL WETLANDS INVENTORY (NWI) - database of information on the characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This data is available for select areas of the United States.

**Floodplains: FEMA** FLOODPLAINS – database of 100 year and 500 year flood zone boundaries for select counties in the United States

**Historic Landmarks: NPS** NATIONAL REGISTRY OF HISTORIC PLACES DATABASE - The nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

**Federal Land Use: USGS/EPA/FWS/BIA** FEDERAL LANDS OF THE UNITED STATES - Database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included. Descriptive information includes the name and type of the Federal land and the administering agency.

ENDANGERED SPECIES PROTECTION PROGRAM DATABASE – List of the Endangered Species by county and the species status./n NATIONAL WILDLIFE REGUGE DATA - database of boundaries for National Wildlife Refuges, National Fish Hatcheries, and USFWS administrative sites. Contains information regarding refuge name and contact information.

BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

**RADON: NTIS** NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

## Environmental FirstSearch Database Sources

**State ACEC:** *LDWF* Louisiana Department of Wildlife and Fisheries

*Updated when available*

**State ACEC:** *USFWS* United States Fish and Wildlife Services

*Updated semi-annually*

**Wetlands:** *US FWS* U.S. Fish and Wildlife Service

*Updated when available*

**Floodplains:** *FEMA* Federal Emergency Management Agency

*Updated when available*

**Historic Landmarks:** *NPS* National Park Service

*Updated annually*

**Federal Land Use:** *USGS/EPA/FWS/BIA* U.S. Geological Survey  
Environmental Protection Agency  
United States Fish and Wildlife Services

*Updated annually*

**RADON:** *NTIS* Environmental Protection Agency, National Technical Information Services

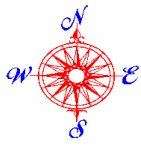
*Updated periodically*

***Environmental FirstSearch***  
***Street Name Report for Streets within .25 Mile(s) of Target Property***

**Target Property:** 1117 NORTH 7TH AVE  
OAKDALE LA 71463

**JOB:** 870095  
ALLEN COUNTY

Street Name	Dist/Dir	Street Name	Dist/Dir
N 7th St	0.12 SE		
W Whatley Rd	0.13 SE		

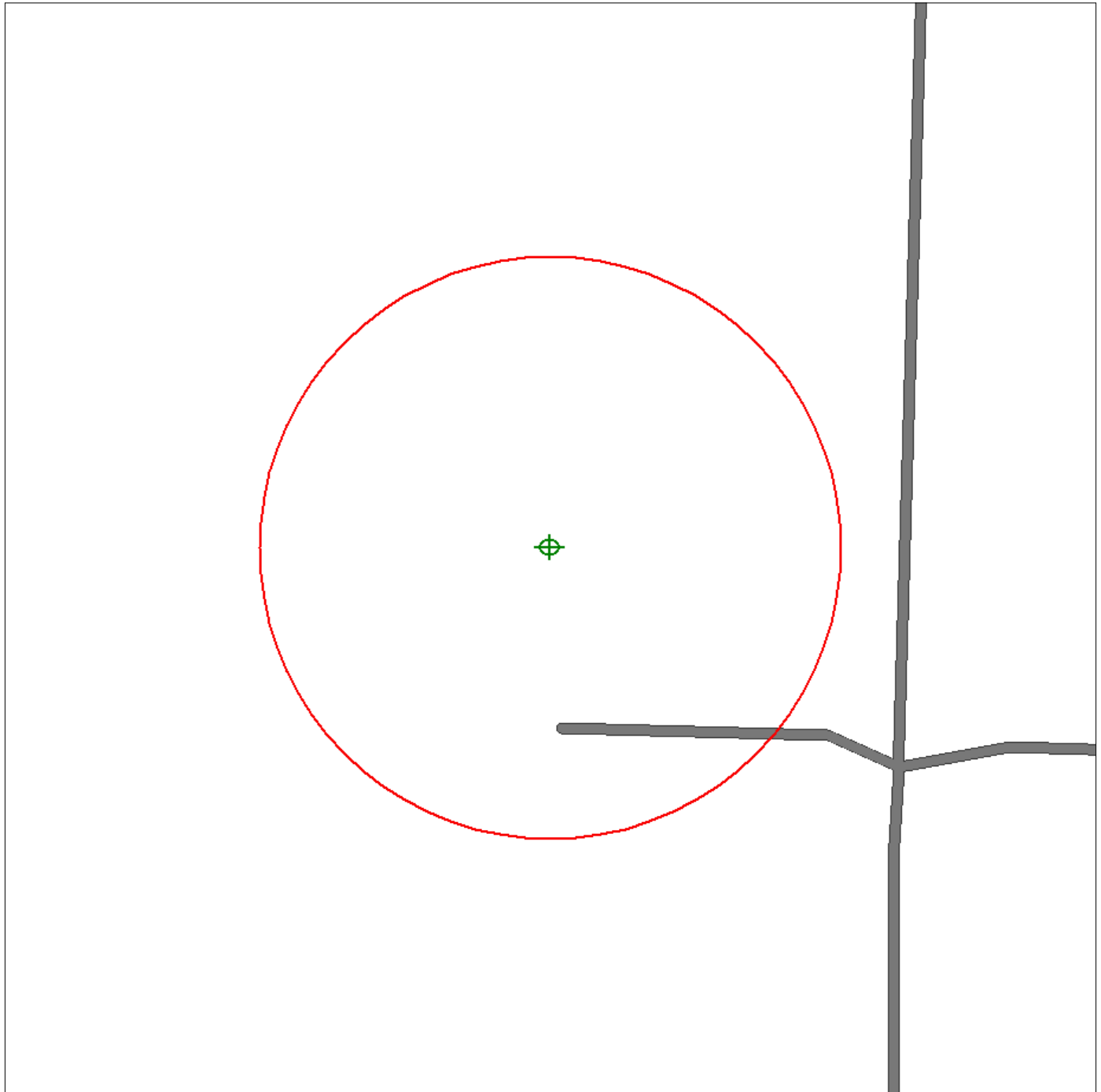


# Environmental FirstSearch

.15 Mile Radius  
NEPA Map: WETLANDS



**1117 NORTH 7TH AVE, OAKDALE LA 71463**



*Source: 2005 U.S. Census TIGER Files*

Target Site (Latitude: 30.833027 Longitude: -92.668388) ..

Identified Site, Multiple Sites, Receptor ..

Wetlands ..

Railroads ..



Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

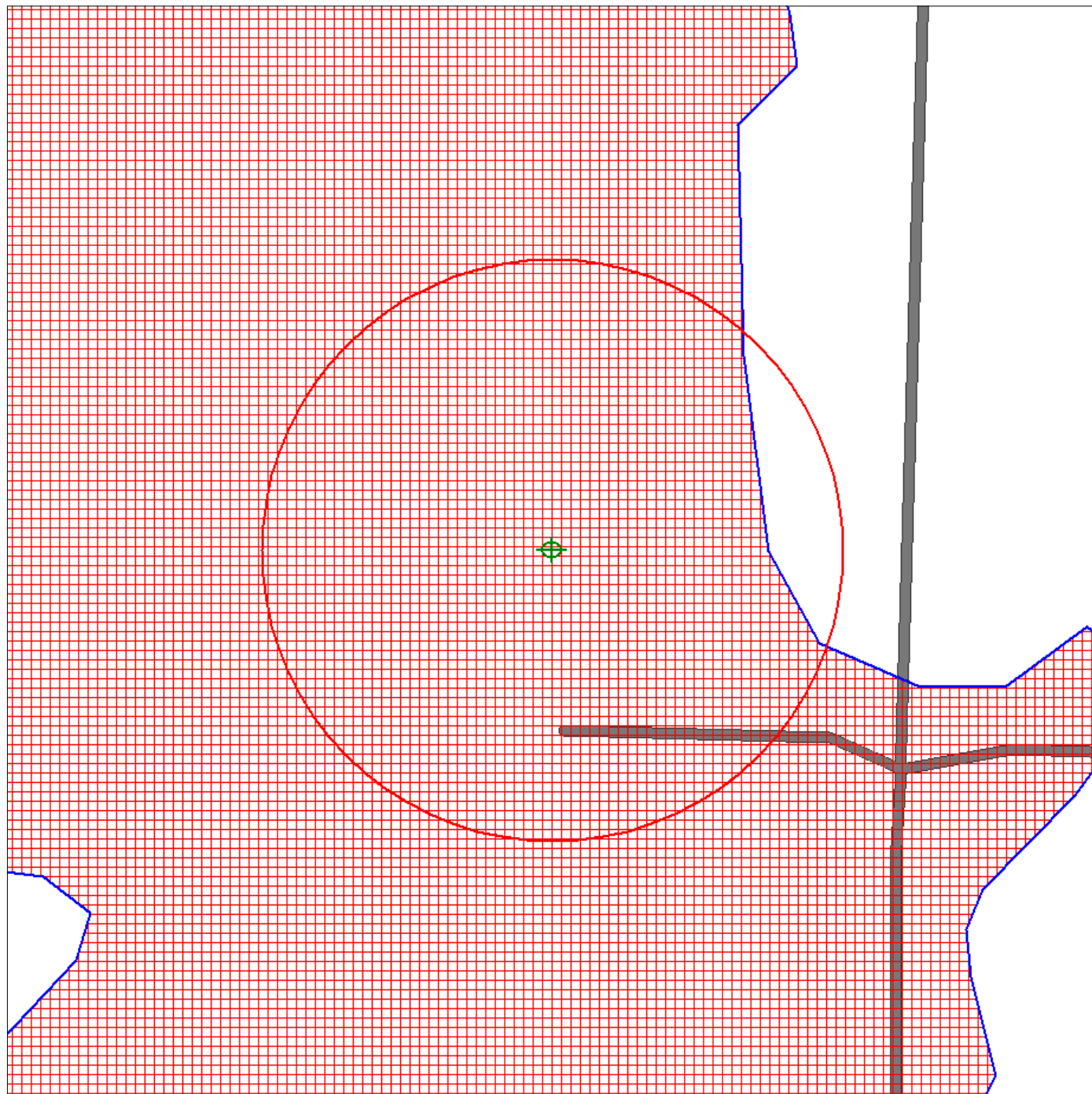


# Environmental FirstSearch

.15 Mile Radius  
NEPA Map: FLOODPLAINS



1117 NORTH 7TH AVE, OAKDALE LA 71463



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 30.833027 Longitude: -92.668388) .....



Identified Site, Multiple Sites, Receptor .....



Floodplains: 100 Year, 500 Year .....



Railroads .....



Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

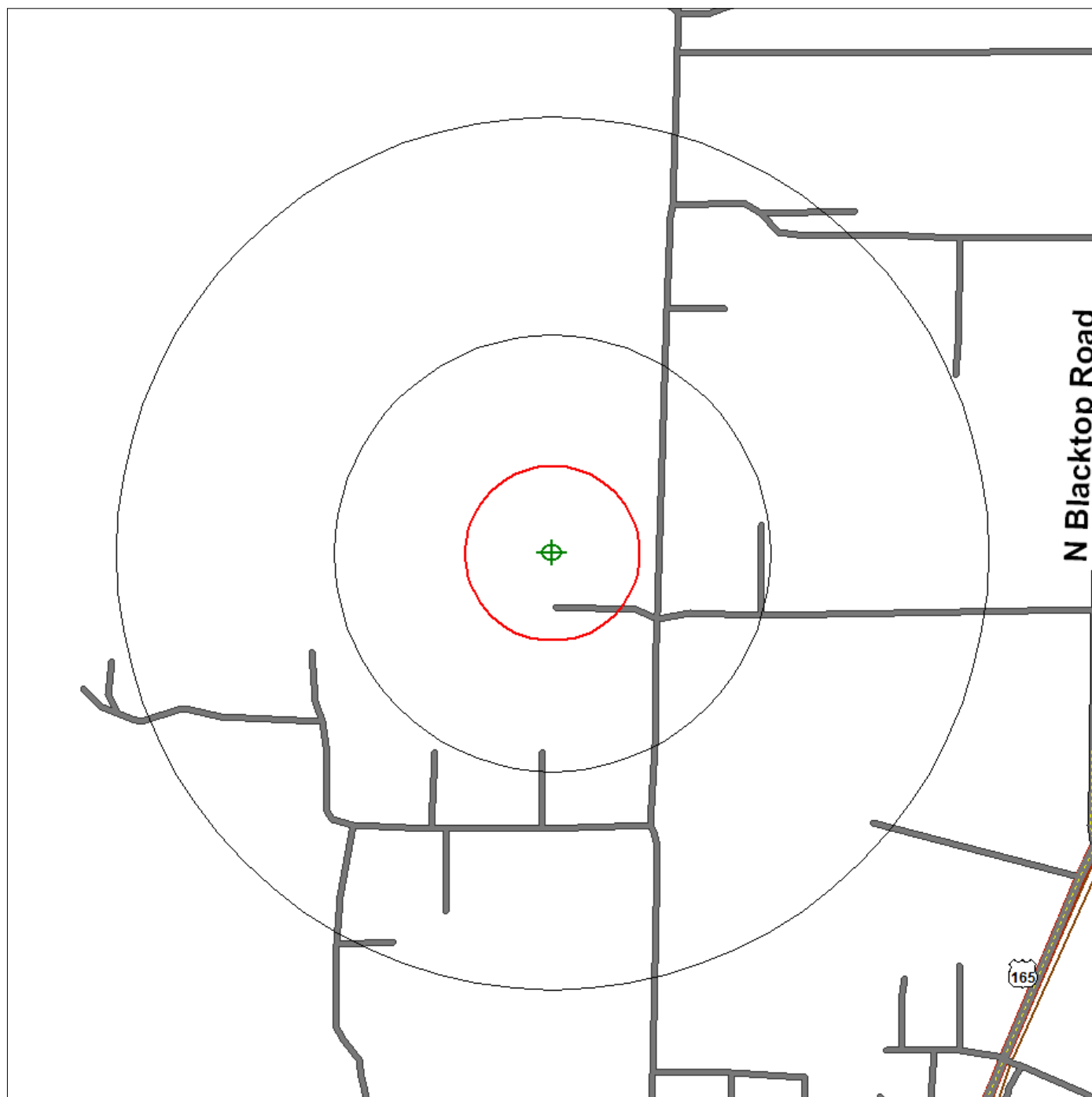


# Environmental FirstSearch

.5 Mile Radius  
NEPA Map: ACEC SITES



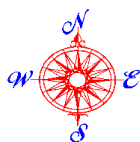
**1117 NORTH 7TH AVE, OAKDALE LA 71463**



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 30.833027 Longitude: -92.668388) .....	
Receptor .....	
Area of Critical Environmental Concern (ACEC), Protected Open Spaces .....	
Railroads .....	

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

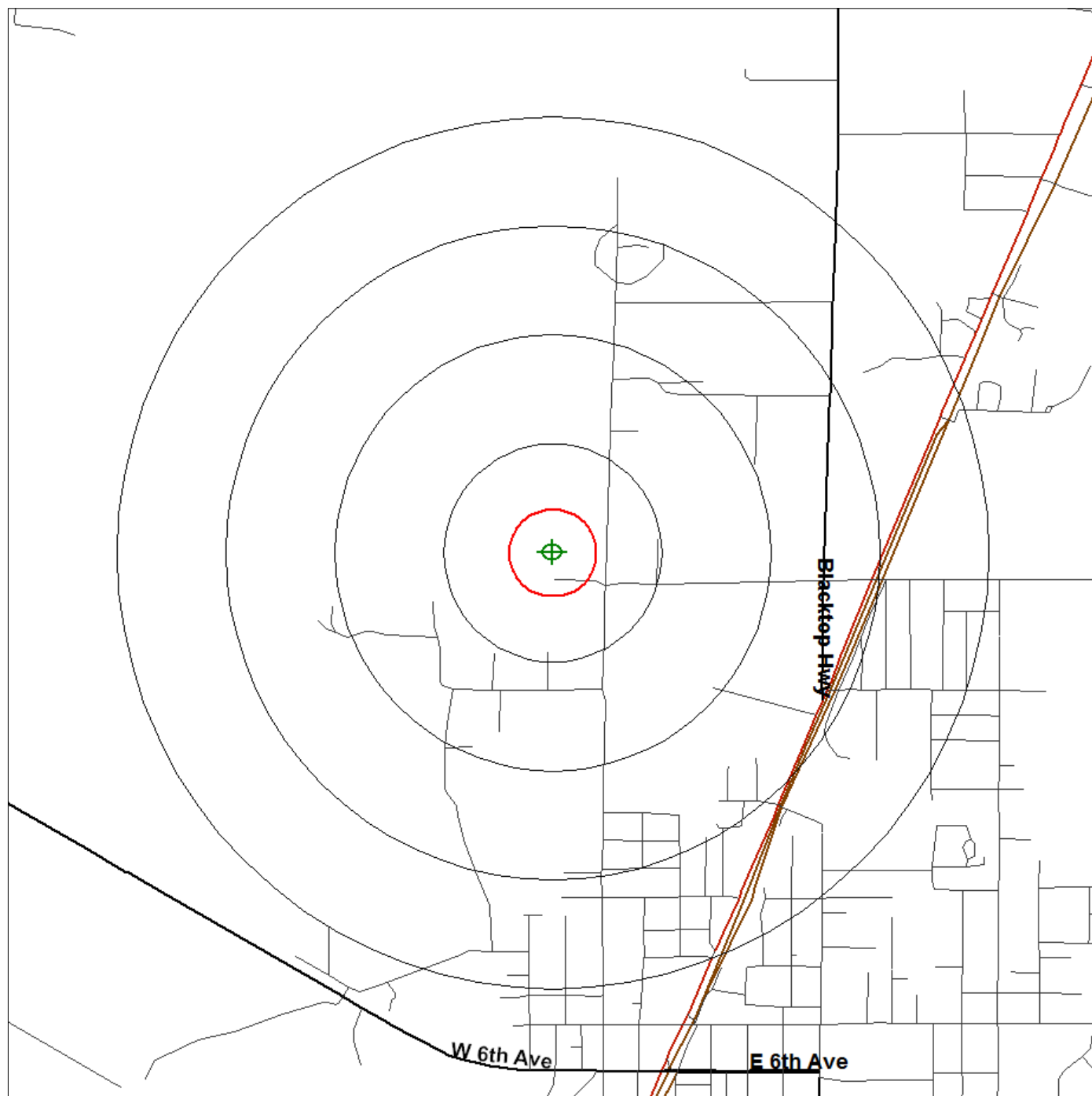


# Environmental FirstSearch

1 Mile Radius  
NEPA Map: HISTORIC SITES



**1117 NORTH 7TH AVE, OAKDALE LA 71463**



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 30.833027 Longitude: -92.668388) .....

Receptor .....

National Historic Sites and Landmark Sites .....

Railroads .....



Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

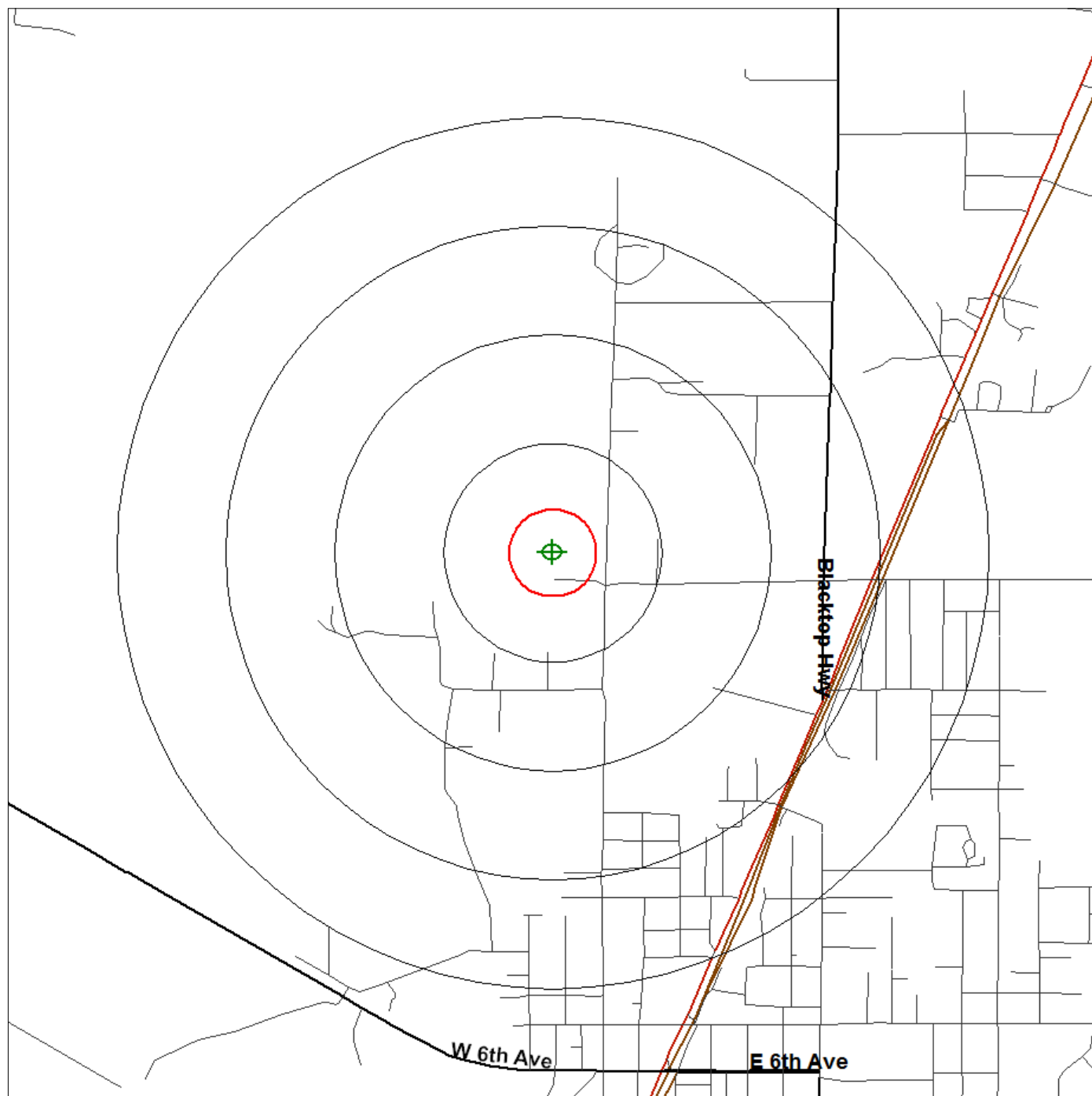


# Environmental FirstSearch

1 Mile Radius  
NEPA Map: LANDUSE



**1117 NORTH 7TH AVE, OAKDALE LA 71463**



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 30.833027 Longitude: -92.668388) .....

Receptor .....

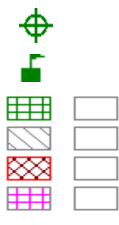
Fed. Land Use: Wilderness Areas .....

Fed. Land Use: Wildlife Preserves .....

Fed. Land Use: Amer. Indian Sacred Sites.....

Fed. Land Use: Endangered Species' Habitats.....

Railroads .....



Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius



## **APPENDIX B**

### **Migratory Bird Study**

# **NEPA Report**

**Oakdale  
Crown Castle**

**Trileaf # 604049**

**Prepared For:**

Crown Castle  
5350 N. 48<sup>th</sup> Street  
Chandler, AZ 85226

**Prepared By:**



December 21, 2012

**Informal Biological Assessment**  
**Crown Castle**  
**Project Name: Oakdale**  
**Trileaf #604049**

In accordance with 47 CFR 1.1307 (a)3, Trileaf performed an Informal Biological Assessment for the subject Property. The purpose is to document whether the proposed undertaking will affect listed or proposed threatened or endangered species, designated critical habitat, wetlands, or migratory birds. Furthermore, particular emphasis on potential effects to migratory birds will be made to address the Federal Communication Commission's (FCC) concerns.

**Property Location:**

The Property is located at 1117 North 7<sup>th</sup> Avenue, Oakdale, Allen County, Louisiana 71463, just outside of the city limits of Oakdale between residential properties. The Property is approximately 112 feet above mean sea level.

**Site Characteristics:**

The proposed undertaking consists of the replacement of a 465ft guyed tower with a 465-foot guyed tower within the same tower footprint. The existing tower has three guy-wire easements that contain the guy-wire anchors and each extend approximately 330-feet, one to the north, southwest and southeast of the tower. An existing, approximately 600-foot, graveled access easement extends east towards North 7th Avenue. The tower compound and easements have been cleared of trees and have very little to sparse ground vegetation. Surrounding the Property is a densely wooded area with surrounding residential properties to the north, south, and east, and wooded areas fragmented by harvested woods to the west. It appears that the wooded areas surrounding the Property and town of Oakdale have been cut historically, as there appear to be no mature woods in the direct vicinity of the Property.

According to the U.S. Soil Conservation Service Soil Survey of Allen Parish, Louisiana, the tower location and the north and southeastern guy anchors are underlain by Guyton silt loam with 0 to 1 percent slopes and the southwestern guy anchors are underlain by Caddo-Messer Complex.

The Guyton series consists of very deep, poorly drained and very poorly drained, slowly permeable soils that formed in thick loamy sediments. A typical profile for Guyton soils consists of a surface layer of silt loam that extends to a depth 18 inches subsurface followed by two layers of silty clay loam that extend from 18 to 66 inches subsurface. The Guyton silt loam soils occasionally flood and the water table is typically between 0 to 18 inches subsurface. Depth to the most restrictive feature is more than 80 inches.

The Caddo-Messer Complex is composed of 60 percent Caddo and similar soils and 35 percent Messer and similar soils. The Caddo soils are very deep, poorly drained, slowly permeable soils that formed in thick beds of unconsolidated loamy sediments and have 0 to 1 percent slopes. A typical profile for Caddo soils consists of a surface layer of silt loam that extends 21 inches subsurface followed by silty clay loam that extends 21 to

61 inches subsurface. Caddo soils do not typically flood or pond. The depth to the most restrictive feature is more than 80 inches, but depth to the water table is between 0 and 24 inches subsurface. The Messer soils are very deep, moderately well drained, slowly permeable soils that are derived from loamy eolian deposits over loamy fluviomarine deposits and have a 1 to 5 percent slope. A typical profile for Messer soils consists of two surface layers of silt loam extending to 32 inches subsurface followed by two layers of loam from 32 to 69 inches subsurface. The Messer soils do not typically flood or pond and have a depth to the most restrictive feature of more than 80 inches with a water table at about 24 to 48 inches subsurface.

The Guyton and Caddo soils are considered hydric soils for Allen County, Louisiana. In addition, surface water was observed in patches throughout the guy-wire easements and along the access easement.

Proximity to lotic and lentic water bodies was reviewed using topographic maps, U.S. Fish and Wildlife Service National Wetland Inventory (NWI) map, the U.S. Soil Conservation soil survey, and area reconnaissance. It was determined that recent rain events and poor drainage of the soil, accounted for the surface water identified within and surrounding the Property. The closest NWI mapped wetland is adjacent to the northern guy-wire easement and may even extend within the cleared easement. There is a second mapped wetland located approximately 70-feet to the south of the tower compound. This mapped wetland is not located on the Property and should not be affected by the construction activities. However due to the mapped wetland near the northern-guy wire easement, a wetland delineation is recommended prior to construction activities. Since the area was previously disturbed during the construction of the original tower, it is likely that no additional adverse effects would occur to this mapped wetland by the tower replacement. It is recommended that erosion control methods be placed during construction activities to prevent any erosion/fill to the mapped wetlands. There are several isolated and small wetlands scattered within a mile of the site. The closest flowing body of water is the Calcasieu River located approximately 0.38 miles to the west. This river has mapped wetlands associated with its riparian corridor. Furthermore, according to FEMA's FIRM map panel #22003C0160D, the Property is located within Flood Zone AE, which is defined as within the 100-year floodplain with unknown base flood elevations.

#### **Designated Wilderness Areas, Wildlife Preserves, or Refuges:**

Trileaf reviewed topographic maps, the wilderness.net and [www.fws.gov/refuges](http://www.fws.gov/refuges) websites, as well as conducted a site reconnaissance to determine if designated wilderness areas, wildlife preserves, or refuges are located at or near the project location that may provide habitat for threatened or endangered species or migratory birds. On December 11, 2012, a staff scientist took photographs and performed a visual survey of the Property during a site visit. Trileaf determined that the tower is not located in or within one mile of these special wildlife areas. However, approximately 1.86 miles to the southwest is the West Bay Wildlife Management Area. This area consists of 56,000 acres of privately owned land that is owned predominately by timber companies. The State Department of Wildlife and Fisheries has rights to manage only wildlife within this area which includes but is not limited to hunting and fur trapping. The areas only major

flowing stream is Mill Creek located through the center to the west of center of the area. The area's habitat is considered 1/3 baygall habitat and poorly drained, and 2/3 fairly good drainage and predominately pine plantations with scattered hardwoods such as oak. It is Trileaf's opinion that due to the disturbance and use of this area for timber harvest as well as distance away from the Property, the West Bay Wildlife Management Area will not increase the potential for threatened or endangered species or the presence of migratory birds at the Property.

**Listed, Threatened or Endangered Species and Critical Habitat:**

Trileaf has researched the listed and/or proposed threatened or endangered species or designated critical habitat for the project area. This includes any such species that have been reported to exist within the state where the project is located. The list of federally threatened or endangered species was acquired from the U.S. Fish and Wildlife Service and is broken down by county. Furthermore a list of state at risk species was obtained from the State of Louisiana Department of Wildlife and Fisheries. These species are given a rank and the most vulnerable species are presented here. These ranks include S1, which is defined as critically imperiled in Louisiana and S2, which is defined as imperiled in Louisiana.

The Property is not located within an aquatic environment, and therefore any obligate aquatic species should not be impacted by this project and are not included in the table below. Furthermore, the Property is currently a developed cell tower site, and the replacement tower will be placed within the existing disturbed areas. Therefore listed plant species should not be affected; however, as a conservative approach, plants were reviewed and included on the table. A list of remaining species and site observations are summarized in the table below.

The Property or surrounding area does not contain any officially designated critical habitat. Furthermore, the Property is not suitable habitat for any of the listed species due to disturbance at the site from the tower construction and/or the lack of suitable or sufficient habitat in the area. Therefore, no effects to critical habitat or federal and state listed species are expected by the replacement of this tower under the condition that the tower is replaced within the existing tower location.

The following sites were used to identify the threatened and endangered species for federal and State listings within Allen County, Louisiana.

- U.S. Fish and Wildlife Service, Louisiana, Threatened and Endangered Species, Allen County: <http://www.ecos.fws.gov>
- State of Louisiana Department of Wildlife and Fisheries: [www.wlf.louisiana.gov/wildlife](http://www.wlf.louisiana.gov/wildlife)
- U.S. Fish and Wildlife Service, Critical Habitat Portal: <http://criticalhabitat.fws.gov/crithab>

## Crown Castle - Oakdale

Trileaf #604049

Species	Federal/State Status	Habitat Requirements	Species Effect	Notes/Documentation
Red-Cockaded Woodpecker (Picoides borealis)	Endangered/ S2	Mature pine forests, preferring longleaf pine	No Effect	Habitat assessment indicated no suitable habitat present due to no removal of trees proposed
Sprague's Pipit (Anthus spragueii)	Candidate	Breeds and winters in open grassland with good drainage and no shrubs or trees	No Effect	Habitat assessment indicated no suitable habitat present
American Chaffseed (Schwelbea Americana)	Endangered / S1	Pimple mounds with well-drained sandy soil imbedded in flat, poorly drained longleaf pine flatwoods savannah	No Effect	Habitat assessment indicated no suitable habitat present
Louisiana Black Bear (Ursus americanus luteolus)	Threatened	Relatively large, contiguous areas of bottomland hardwood habitat	No Effect	Habitat assessment indicated no suitable habitat present
Purple False-foxglove (Agalinis filicaulis)	S2	Wet pine savannas and flatwoods, depression in pinelands, bogs, edges of cypress-gum ponds and depressions	No Effect	Habitat assessment indicated no suitable habitat present
Skinner's Purple False Foxglove (Agalinis skinneriana)	S1S2	Variety of habitats including sand to mesic prairies, and from rocky open glades to moist thickets	No Effect	Habitat assessment indicated no suitable habitat present
Costal Plain Lobelia (Lobelia flaccidifolia)	S2	Typically found at an altitude of 0 to 610 feet within sandy pine woods along creeks	No Effect	Habitat assessment indicated no suitable habitat present
Texas Palafoxia (Palafoxia texana var. ambigua)	S1	Assumed habitat includes sandy soils with sparse low vegetation and sunny spots	No Effect	Habitat assessment indicated no suitable habitat present
Wooly Plantain (Plantago patagonica)	S2	Upland drier habitats	No Effect	Habitat assessment indicated no suitable habitat present

Boykin's Milwort ( <i>Polygala boykinii</i> )	S1	Rockland pinelands, wet prairies and flatwoods	No Effect	Habitat assessment indicated no suitable habitat present
Scalloped Milwort ( <i>Polygala crenata</i> )	S2	Wet to moist meadows and flatwoods, edges of cypress depressions, and hillside bogs	No Effect	Habitat assessment indicated no suitable habitat present
A Wild Coco ( <i>Pteroglossaspis ecristata</i> )	S2	Sandhill, scrub, pine flatwoods, pine rocklands in upland semi-dry habitats	No Effect	Habitat assessment indicated no suitable habitat present
Millet Beakrush ( <i>Rhynchospora miliacea</i> )	S2	Varied low moist places especially shallow water of cypress gum stands or seepage- saturated hammock areas	No Effect	Habitat assessment indicated no suitable habitat present
Coastal Plain Beakrush ( <i>Rhynchospora stenophylla</i> )	S1	Lower slope seepage bogs, mucky sand over sandy clay with surface soil-water	No Effect	Habitat assessment indicated no suitable habitat present
Scarlet Catchfly ( <i>Silene Subciliata</i> )	S2	Xeric sandhills and sandy woodlands	No Effect	Habitat assessment indicated no suitable habitat present
Pineland Yellow- eyed Grass ( <i>Xyris stricta</i> )	S2	Wet sandy peat, sandy clay, or peat muck soils in cypress flats, bogs, roadside ditches, and pineland ponds	No Effect	Habitat assessment indicated no suitable habitat present

### Migratory Birds

Per the interim guidelines of the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program (FCC PEA), implemented on June 18, 2012, towers over 450-feet in height require additional environmental review for potential migratory bird concerns. This 465-foot guyed tower will be built to replace an existing 465-foot guyed tower and thus is over the 450ft recommended maximum height limit. Therefore, Trileaf conducted a review of the available information to determine the Project's potential for migratory bird impacts.

The following characteristics were reviewed to assess impacts to migratory birds. The Property is not located within a main route of a migratory bird flyway, but it is near alternative routes within the Central Flyway. Upon our site investigation, it was

determined that the project area is not located in an NWI mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain top, coastline or area commonly known to have high incidences of fog or low clouds, where migratory birds may be found. Although there are two NWI mapped wetlands at or adjacent to the Property, they are small wetlands and due to the existing disturbance and development these wetlands are unlikely to attract migratory birds. Furthermore the wetland to the south of the Property is an isolated depression wetland that is in a wooded area south of the tower and north of a manicured lawn associated with a residential property. This wetland is unlikely to attract or support migratory birds.

There are no significant topographic features on the landscape near the site, and the tower is not located on a local high point that would increase potential effects to migratory birds. Furthermore, the tower's proximity to the town of Oakdale further decreases the potential for migratory birds to interact with the tower. Using the FAA's ASR database, a total of 5 towers, including the subject Property, were identified within a 5 mile radius from the Property. Approximately 1 mile west of the Property is a 416ft guyed tower. The siting of this tower near additional towers, including tall guy towers, reduces the sensitivity of the area and decreases the potential effects to migratory birds. The surrounding habitat is wooded areas within a landscape greatly fragmented by rural development outside of Oakdale as well as timber harvests between the site and Calcasieu River to the west. This fragmentation and scattered development and disturbance decreases the value of the land to migratory birds and decreases the chances the area would be used by passing flocks. Although nests were observed in trees surrounding the Property, none of these nests appeared to be raptor nests and only a few were observed. Furthermore a thorough investigation of the Property did not reveal any bird carcasses or signs of bird strikes that may have been caused by the tower.

Therefore, based upon the efforts undertaken during this IBA as well as the current data made available, we have concluded that this Project will have no additional adverse effect on migratory birds; however, the presence of migratory birds cannot be ruled out.

#### **Special considerations:**

- During construction, it is recommended that erosion control be placed south of the compound and along the northern guy-wire easement to prevent the incidental erosion/fill to NWI mapped wetlands. Furthermore a delineation for the wetland boundary along the northern guy-wire easement is recommended.
- The replacement of this tower should go within the existing tower location and no additional trees should be removed. If the new construction must deviate from the existing disturbed area, additional environmental review and clearance from the U.S. Fish and Wildlife Service in Louisiana is recommended.

#### **Conclusion**

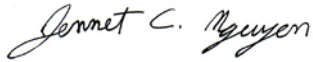
In conclusion, there are no threatened or endangered species or designated critical habitat that is expected to be adversely affected by this proposed tower replacement. Furthermore, due to the absence of features on the landscape to attract migratory birds, the tower's siting among additional towers, and the adjacent development of the town of Oakdale, it is expected that this Project poses no additional adverse effect to migratory



Crown Castle - Oakdale  
Trileaf #604049

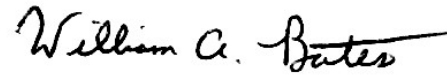
birds. The Property is located within Flood Zone AE, as well as in close proximity to NWI mapped wetlands.

It should be noted that this informal biological assessment was conducted in accordance with the Scope of Work and does not constitute a Section 7 Biological Assessment under the Endangered Species Act (50 CFR Part 402.01).



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Jennet C. Nguyen  
Environmental Specialist



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William A. Bates  
Senior Reviewer

## Property Location and Photographs

## Oakdale Quadrangle, Louisiana (DeLorme)

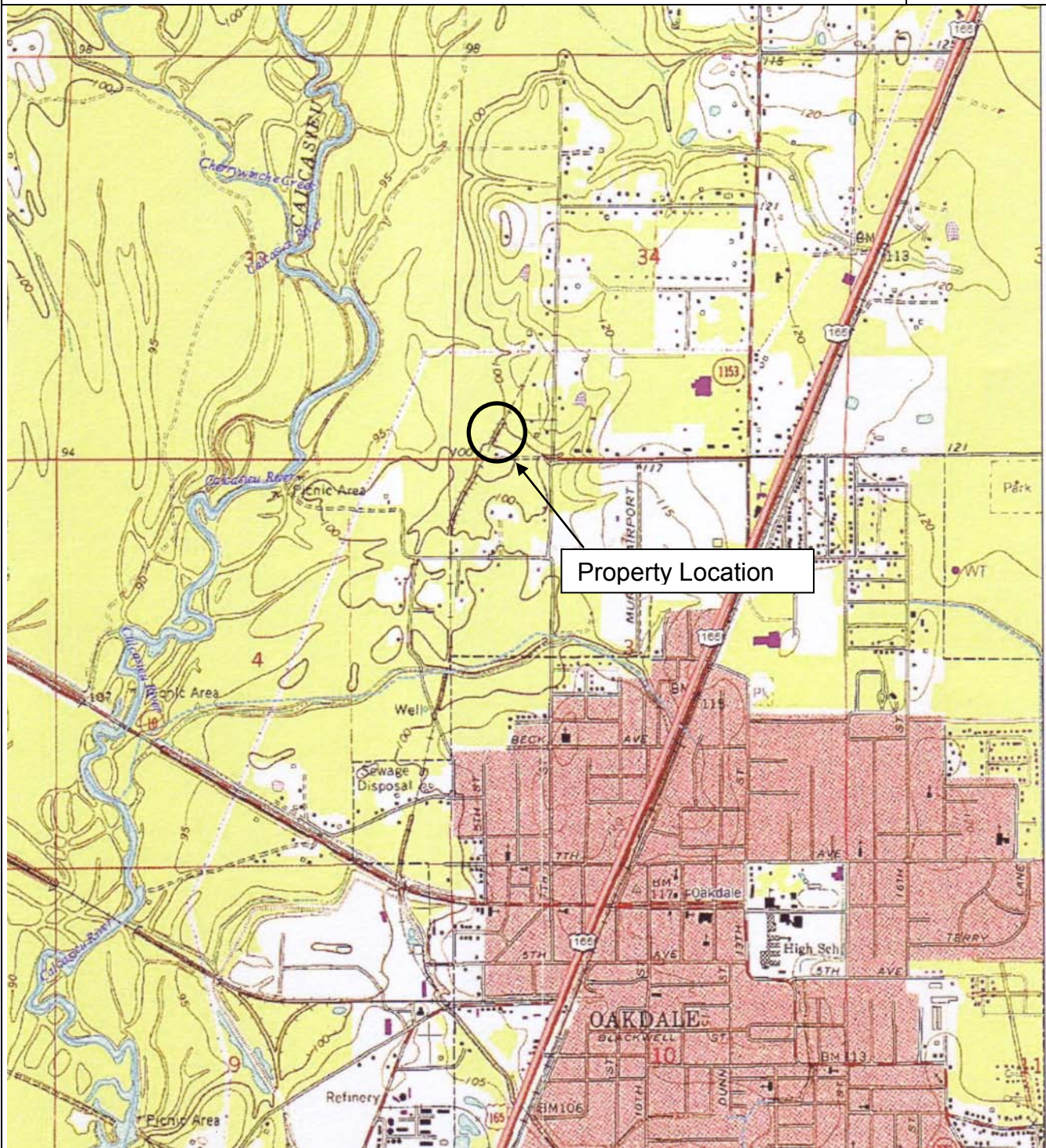
Contour Interval = 5 Feet

Scale

1 Inch = 2,000 Feet



North



### USGS Topographic Map – Location Map

Crown Castle - Oakdale  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

 **TRILEAF**<sup>tm</sup>  
Environmental & Property Consultants





**Site Photograph 1** – Looking north at the existing tower compound



**Site Photograph 2** – Looking south at the existing tower compound

## **Site Photographs**

**Crown Castle – Oakdale**  
117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

Photographed:  
December 11, 2012

 **TRILEAF**<sub>tm</sub>  
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**Site Photograph 3** – Looking east at the existing tower compound



**Site Photograph 4** – Looking west at the existing tower compound from the access easement

## Site Photographs

**Crown Castle – Oakdale**  
117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

Photographed:

December 11, 2012

 **TRILEAF**<sub>tm</sub>  
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**Site Photograph 5** – Looking north away from the compound at the northern guy-wire easement



**Site Photograph 6** – Looking southwest away from the compound at the southwestern guy-wire easement

**Site Photographs**  
**Crown Castle – Oakdale**  
 117 North 7<sup>th</sup> Avenue  
 Oakdale, Louisiana 71463

Photographed:  
 December 11, 2012

 **TRILEAF**<sub>tm</sub>  
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**Site Photograph 7** – Looking southeast away from compound at the southeastern guy-wire easement



**Site Photograph 8** – Looking west along the access easement near North 7<sup>th</sup> Avenue

**Site Photographs**  
**Crown Castle – Oakdale**  
 117 North 7<sup>th</sup> Avenue  
 Oakdale, Louisiana 71463

Photographed:  
 December 11, 2012

 **TRILEAF**<sup>™</sup>  
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**Site Photograph 9** – Photo on left looking west at tower, Photo on right looking south at tower



**Site Photograph 10** – Ground depression containing water adjacent to and south along the access road

## Site Photographs

**Crown Castle – Oakdale**  
117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

Photographed:  
December 11, 2012

 **TRILEAF**<sup>™</sup>  
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**Site Photograph 11** – Bird nest on north side of Property



**Site Photograph 12** – South away from the tower showing vegetation surrounding site

## **Site Photographs**

**Crown Castle – Oakdale**  
117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

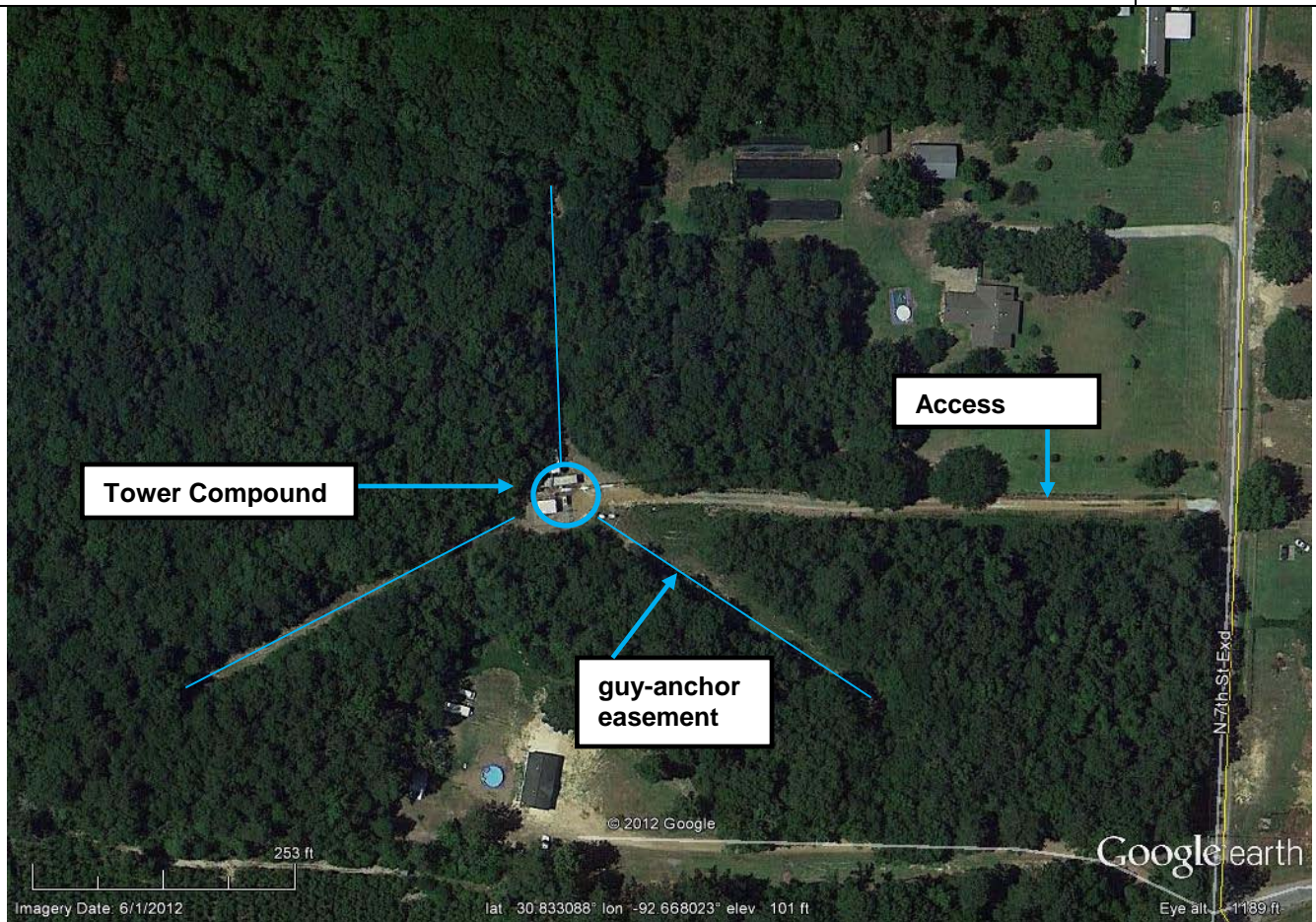
Photographed:  
December 11, 2012



## Map Appendix



## Aerial Map



### Google Earth 2012 Imagery Date

**Crown Castle – Oakdale**  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

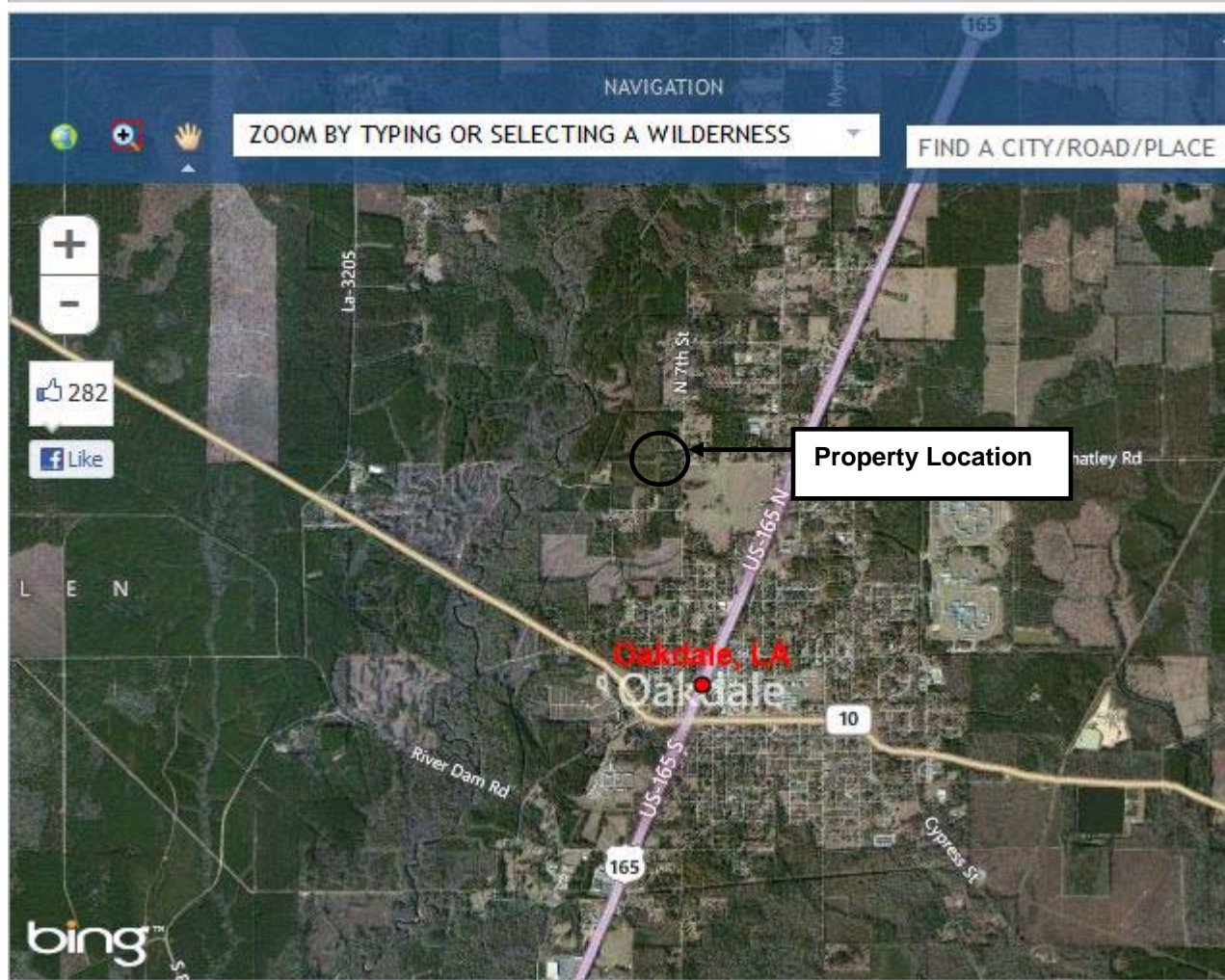


## Wilderness Areas



North

Wilderness.net



### Wilderness Areas – Wilderness.net

**Crown Castle – Oakdale**  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

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## National Wildlife Refuges



### Wildlife Refuge System Map

**Crown Castle – Oakdale**  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463



## U.S. Fish and Wildlife Service Critical Habitat Map



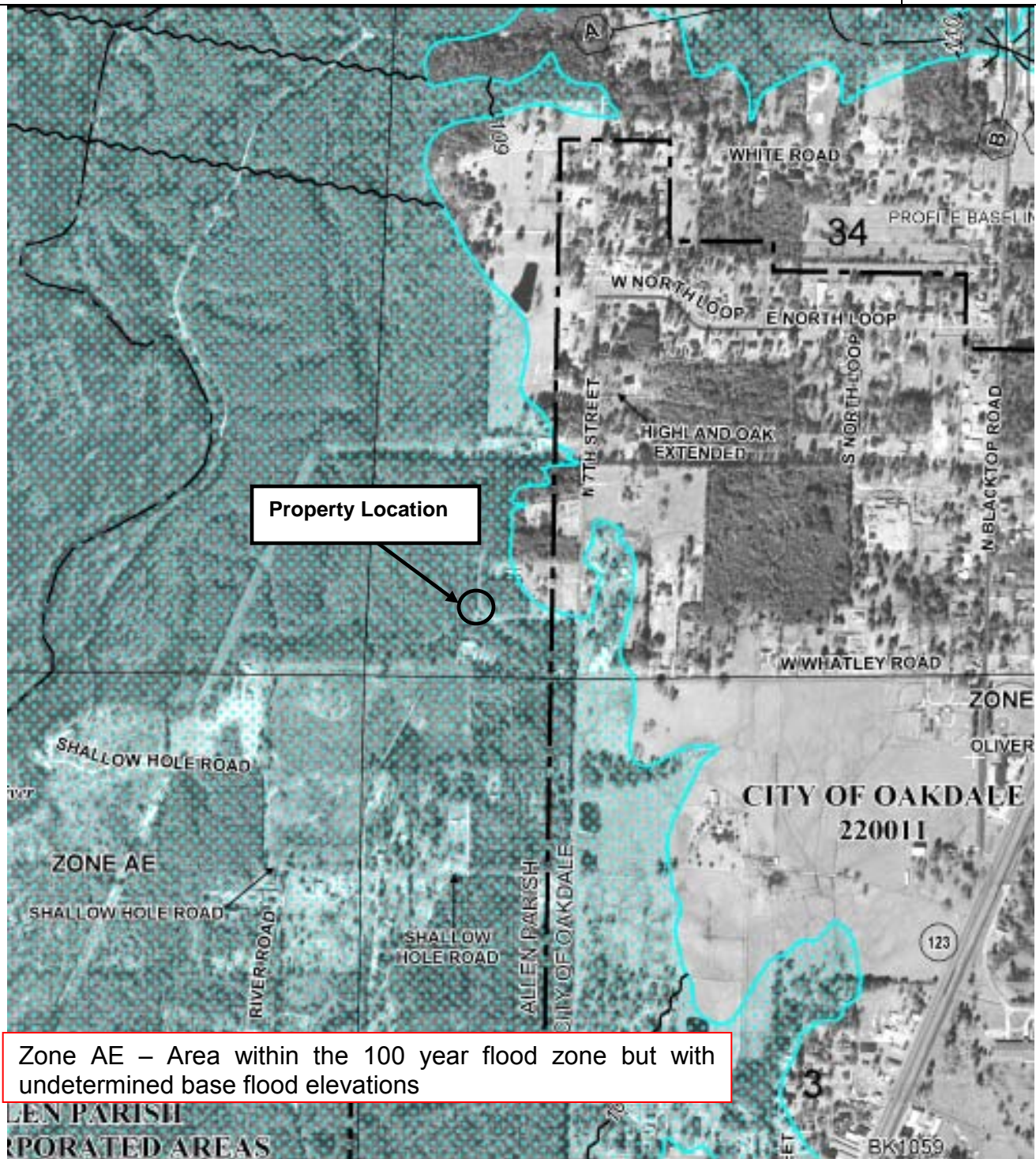
### Fish and Wildlife Critical Habitat Map

**Crown Castle – Oakdale**  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463





Allen Parish, Louisiana  
March 17, 2011  
Community Panel #22003C0160D



**FEMA Flood Insurance Rate Map**

**Crown Castle – Oakdale**  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

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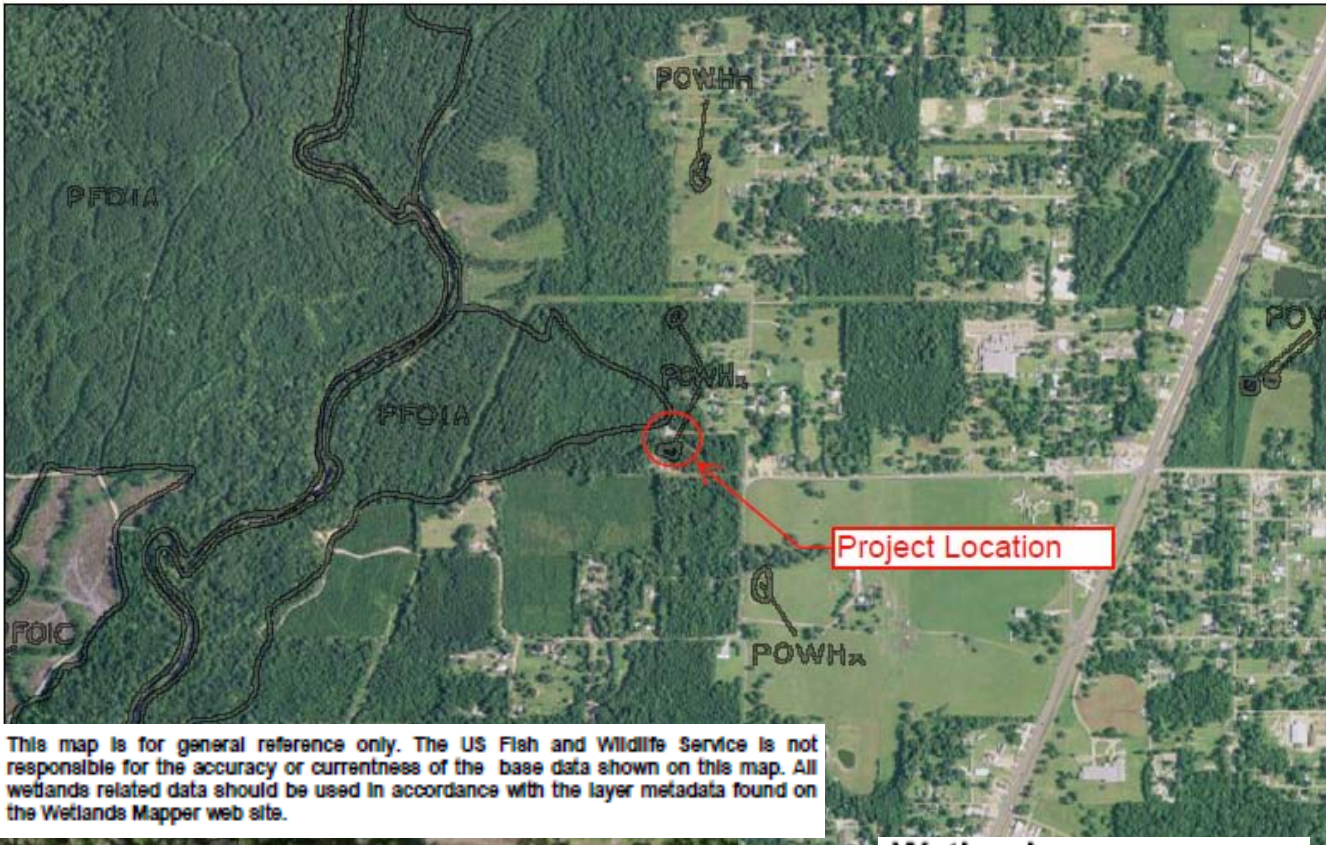


## National Wetlands Inventory Map



U.S. Fish and Wildlife Service

## National Wetlands Inventory



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



### Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deetwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

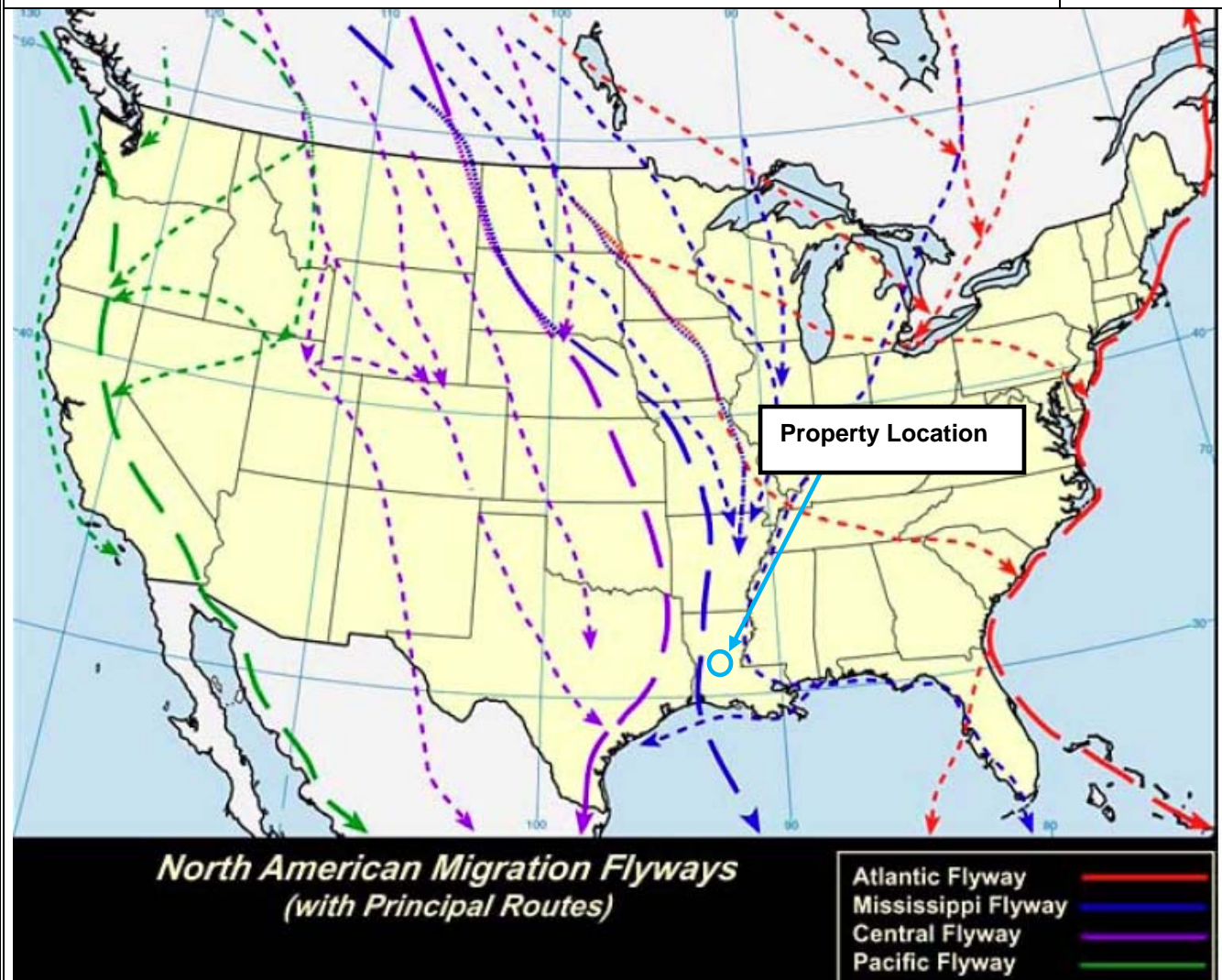
## National Wetlands Inventory Map

Crown Castle – Oakdale  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

**TRILEAF**<sup>tm</sup>  
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## North American Migration Flyways



### Migratory Bird Flyway Map

Crown Castle – Oakdale  
1117 North 7<sup>th</sup> Avenue  
Oakdale, Louisiana 71463

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## Additional Resources

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## Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > ASR Search[FCC Site Map](#)

ASR Registration Search

### Registration Search Results

[ADVANCED SEARCH](#)[HELP](#)[New Search](#) [Refine Search](#) [Printable Page](#) [Query Download](#) [Map Result\(s\)](#)

#### Displayed Results

Matches 1-6 (of 6)

[PA](#) = Pending Application(s)

1

#### Specified Search

Latitude='30-49-58.8 N', Longitude='92-40-6.2 W', Radius=3.2 Kilometers

Display: Basic View

[GO](#)

	Registration Number	Status	File Number	Owner Name	Latitude/Longitude	Structure City/State	Overall Height Above Ground (AGL)
1	<a href="#">1021762</a>	Constructed	A0538941	Pinnacle Towers LLC	30-49-58.9N 092-40-06.2W	OAKDALE, LA	145.0
2	<a href="#">1023956</a>	Constructed	A0626096	American Towers, LLC.	30-50-50.9N 092-41-46.0W	OAKDALE, LA	73.7
3	<a href="#">1029949</a>	Constructed	A0789868	ACADIANA CELLULAR GENERAL PARTNERSHIP	30-49-59.0N 092-39-02.4W	OAKDALE, LA	127.1
4	<a href="#">1039944</a>	Constructed	A0639358	SBA Structures, Inc.	30-49-35.9N 092-39-21.3W	OAKDALE, LA	86.8
5	<a href="#">1261700</a>	Constructed	A0586510	Trillion Partners Inc.	30-50-06.3N 092-39-37.3W	Oakdale, LA	30.5
6	<a href="#">1261701</a>	Constructed	A0586511	Trillion Partners Inc.	30-48-49.7N 092-39-22.2W	Oakdale, LA	42.7

Matches 1-6 (of 6)

1

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Registration Search By Registration Number


[SUBMIT](#)

This is an aerial map of a rural area, likely in a coastal or agricultural region. The map is overlaid with a grid of latitude and longitude coordinates. The latitude ranges from 30° 49' 17" to 30° 50' 34" N, and the longitude ranges from 92° 41' 12" to 92° 38' 58" W. The map shows a network of roads, including White Rd, North Loop, 7th St, 7th St Ext, Shallowhole Rd, River Rd, and various local streets like Gum St, Ash St, Cherry St, Fisher St, Miller St, Ellis St, Talambas Dr, 12th St, 13th St, Forest Dr, Woodlawn Dr, Brown St, Beech St, 14th St, 15th St, Oliver St, Scott St, and Whatley Rd. A red box labeled "Property Location" is positioned near the intersection of 7th St and Shallowhole Rd. The map also shows several fields, some of which are labeled with codes like "GY", "Cd", "Ce", "Ch", "Ck", "Ct", "Cv", "Cw", "Cx", "Cy", "Cz", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z". A blue line representing a river or stream is visible on the left side of the map. The map is oriented with North at the top.



## MAP LEGEND






















### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Units

### Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot



Very Stony Spot



Wet Spot



Other

### Special Line Features



Gully



Short Steep Slope



Other

### Political Features



Cities

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

## MAP INFORMATION

Map Scale: 1:17,000 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 15N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Allen Parish, Louisiana

Survey Area Data: Version 8, Dec 10, 2009

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Allen Parish, Louisiana (LA003)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cd	Caddo-Messer complex	457.0	34.6%
Ch	Cahaba fine sandy loam, 1 to 3 percent slopes	19.1	1.4%
Ck	Cahaba-Bienville-Guyton complex, gently undulating	115.9	8.8%
Ge	Glenmora silt loam, 1 to 3 percent slopes	74.1	5.6%
Go	Guyton silt loam, occasionally flooded	240.6	18.2%
GY	Guyton and Cascilla soils, frequently flooded	335.5	25.4%
Ma	Malbis fine sandy loam, 1 to 5 percent slopes	50.3	3.8%
Rt	Ruston fine sandy loam, 1 to 5 percent slopes	10.6	0.8%
W	Water	17.3	1.3%
<b>Totals for Area of Interest</b>		<b>1,320.4</b>	<b>100.0%</b>



## Allen Parish, Louisiana

### Go—Guyton silt loam, occasionally flooded

#### Map Unit Setting

*Landscape:* Coastal plains

*Elevation:* 20 to 200 feet

*Mean annual precipitation:* 42 to 62 inches

*Mean annual air temperature:* 61 to 70 degrees F

*Frost-free period:* 220 to 350 days

#### Map Unit Composition

*Guyton and similar soils:* 90 percent

#### Description of Guyton

##### Setting

*Landform:* Flood plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy alluvium of holocene age

##### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*Capacity of the most limiting layer to transmit water*

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 0 to 18 inches

*Frequency of flooding:* Occasional

*Frequency of ponding:* None

*Gypsum, maximum content:* 5 percent

*Sodium adsorption ratio, maximum:* 10.0

*Available water capacity:* High (about 11.9 inches)

##### Interpretive groups

*Farmland classification:* Not prime farmland

*Land capability (nonirrigated):* 4w

*Hydrologic Soil Group:* D

##### Typical profile

*0 to 18 inches:* Silt loam

*18 to 48 inches:* Silty clay loam

*48 to 66 inches:* Silty clay loam

## Data Source Information

Soil Survey Area: Allen Parish, Louisiana

Survey Area Data: Version 8, Dec 10, 2009

## Allen Parish, Louisiana

### Cd—Caddo-Messer complex

#### Map Unit Setting

*Landscape:* Coastal plains

*Elevation:* 10 to 80 feet

*Mean annual precipitation:* 45 to 62 inches

*Mean annual air temperature:* 61 to 70 degrees F

*Frost-free period:* 200 to 350 days

#### Map Unit Composition

*Caddo and similar soils:* 60 percent

*Messer and similar soils:* 35 percent

#### Description of Caddo

##### Setting

*Landform:* Flats

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy fluviomarine deposits of early pleistocene age

##### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 0 to 24 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water capacity:* Very high (about 12.6 inches)

##### Interpretive groups

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 3w

*Hydrologic Soil Group:* D

##### Typical profile

*0 to 21 inches:* Silt loam

*21 to 61 inches:* Silty clay loam

#### Description of Messer

##### Setting

*Landform:* Flats

*Landform position (three-dimensional):* Rise

*Microfeatures of landform position:* Pimple mounds

*Down-slope shape:* Convex

*Across-slope shape:* Convex



*Parent material:* Loamy eolian deposits over loamy fluviomarine deposits

**Properties and qualities**

*Slope:* 1 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 24 to 48 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water capacity:* High (about 11.3 inches)

**Interpretive groups**

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 2e

*Hydrologic Soil Group:* C

**Typical profile**

*0 to 13 inches:* Silt loam

*13 to 32 inches:* Silt loam

*32 to 65 inches:* Loam

*65 to 69 inches:* Loam

## Data Source Information

Soil Survey Area: Allen Parish, Louisiana

Survey Area Data: Version 8, Dec 10, 2009

Group	Name	Population	Status	Lead Office	Recovery Plan Name	Recovery Plan Stage
Birds	Red-cockaded woodpecker		Endangered	Mississippi Ecological Services	Red-cockaded Woodpecker	Final Revision 2
Birds	Sprague's pipit (Anthus		Candidate	North Dakota Ecological		
Flowering Plants	American chaffseed (Schwalbea		Endangered	New Jersey Ecological Services	American Chaffseed	Final
Mammals	Louisiana black bear (Ursus		Threatened	Louisiana Ecological Services	Louisiana Black Bear	Final

## Louisiana Natural Heritage Program

- Explanation of Endangered Species Rankings
- How to Request Data
- Louisiana Women in the Wild Information and Application
- ▶ Natural Areas Registry Program
- ▶ Natural Communities
- Natural Heritage Program Staff
- ▶ Rare Animal Species
- ▶ Rare Plant Species
- Species by Parish List

## Wildlife

- Alligator Program
- Forestry Program
- Land Management Assistance
- ▶ Louisiana Natural Heritage Program
- Nutria Control Program
- Statewide Environmental Investigations
- Urban and Nuisance Wildlife
- Wildlife Action Plan
- Natural Areas Registry
- Scenic Rivers
- State Wildlife Grant Programs
- Wildlife Rehabilitators

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## Species by Parish List

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### Explanation of Ranking Categories Employed by Natural Heritage Programs Nationwide

#### Federal Ranks (USES A FIELD):

#### Global Element Ranks:

#### State Element Ranks:

#### State Protection Status:







#### Filter By Parish


#### Filter by Type

[Apply](#)






## Rare Plant Species




<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
<a href="#"><u>Agalinis filicaulis</u></a>	Purple False-foxglove	S2	G3G4			<a href="#">Agalinis filicaulis</a>	Allen, Beauregard, Calcasieu, St. Tammany, Vernon
<a href="#"><u>Agalinis skinneriana</u></a>	Skinner's purple false foxglove	S1S2	GNR				Allen, Catahoula, Grant, LaSalle, Natchitoches, Sabine, Vernon
<a href="#"><u>Amsonia ludoviciana</u></a>	Louisiana Blue Star	S3	G3				Allen, Bienville, Calcasieu, Grant, Natchitoches, Ouachita, Rapides, Red River, Sabine, Vernon, Winn
<a href="#"><u>Carex meadii</u></a>	Mead's Sedge	S3	G4G5				Acadia, Allen, Bossier, Caddo, Calcasieu, DeSoto, Grant, Jefferson Davis, Morehouse, Natchitoches, Rapides, Winn
<a href="#"><u>Helianthus silphioides</u></a>	Rosinweed Sunflower	S3S4	G3G4				Allen, Catahoula, Morehouse, Ouachita
<a href="#"><u>Lobelia flaccidifolia</u></a>	Coastal Plain Lobelia	S2?	G5				Allen, Avoyelles, Beauregard, Calcasieu,

<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
							Grant, Jefferson Davis, LaSalle, Rapides, Vernon
<u><a href="#">Palafoxia texana var. ambigua</a></u>	Texas Palafoxia	S1	G3G5TN R				Allen
<u><a href="#">Physostegia longisepala</a></u>	Long-sepaled False Dragon-head	S2S3	G2G3			 <u><a href="#">Physostegia longisepala</a></u>	Acadia, Allen, Beauregard, Jefferson Davis, Lafayette, Vermilion
<u><a href="#">Plantago patagonica</a></u>	Woolly Plantain	S2	G5				Allen
<u><a href="#">Polygala boykinii</a></u>	Boykin's milkwort	S1	G4				Allen
<u><a href="#">Polygala crenata</a></u>	Scalloped Milkwort	S2	G4?			 <u><a href="#">Polygala crenata</a></u>	Allen, Beauregard, St. Tammany, Tangipahoa
<u><a href="#">Pteroglossaspis ecristata</a></u>	A Wild Coco	S2	G2G3			 <u><a href="#">Pteroglossaspis ecristata</a></u>	Allen, Beauregard, Grant, Jefferson Davis, St. Tammany, Tangipahoa, Vernon
<u><a href="#">Rhynchospora debilis</a></u>	Savannah Beakrush	S3	G4?				Allen, St. Tammany
<u><a href="#">Rhynchospora miliacea</a></u>	Millet Beakrush	S2	G5			 <u><a href="#">Rhynchospora miliacea</a></u>	Allen, Lafourche, Livingston, Rapides, St. Mary, St. Tammany, Terrebonne, Vernon, Winn
<u><a href="#">Rhynchospora stenophylla</a></u>	Coastal Plain Beakrush	S1	G4				Allen
<u><a href="#">Schwalbea americana</a></u>	American Chaffseed	S1	G2		E	 <u><a href="#">Schwalbea americana</a></u>	Allen, Beauregard
<u><a href="#">Scleria verticillata</a></u>	Low Nutrush	S1	G5				Allen, Jefferson Davis, St. Tammany
<u><a href="#">Silene subciliata</a></u>	Scarlet Catchfly	S2	G3			 <u><a href="#">Silene subciliata</a></u>	Allen, Beauregard, Sabine, Vernon
<u><a href="#">Sporobolus vaginiflorus var. ozarkanus</a></u>	Ozark Dropseed	S3	G5T5?				Allen, Jefferson Davis, Ouachita, Winn



<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
<u><a href="#">Tetragonotheca ludoviciana</a></u>	Louisiana Square-head	S3	G4				Allen, Natchitoches, Sabine, Vernon
<u><a href="#">Xyris stricta</a></u>	Pineland Yellow-eyed Grass	S2	G3G4			 <u><a href="#">Xyris stricta</a></u>	Allen, Beauregard, St. Tammany




## Rare Animal Species

<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
<u><a href="#">Aimophila aestivalis</a></u>	Bachman's Sparrow	S3	G3			 <u><a href="#">Aimophila aestivalis</a></u>	Allen, Beauregard, Bienville, Bossier, Calcasieu, Claiborne, Grant, Jackson, Livingston, Natchitoches, Rapides, Sabine, St. Tammany, Tangipahoa, Vernon
<u><a href="#">Lampsilis satura</a></u>	Sandbank Pocketbook	S2	G2			 <u><a href="#">Lampsilis satura</a></u>	Allen, Beauregard, Calcasieu, Rapides, Vernon
<u><a href="#">Macrochelys temminckii</a></u>	Alligator Snapping Turtle	S3	G3G4	Restricted Harvest		 <u><a href="#">Macrochelys temminckii</a></u>	Acadia, Allen, Avoyelles, Beauregard, Bienville, Catahoula, Concordia, Grant, Iberia, Lafayette, Madison, Ouachita, Rapides, St. John the Baptist, St. Landry, St. Tammany, Tangipahoa, Tensas, Vermilion
<u><a href="#">Mustela frenata</a></u>	Long-tailed Weasel	S2S4	G5			 <u><a href="#">Mustela frenata</a></u>	Allen, East Baton Rouge, East Feliciana, Jackson, Lincoln, Livingston, Ouachita, Rapides, St. James, St. Tammany, Union, Vernon, West Feliciana
<u><a href="#">Obovaria jacksoniana</a></u>	Southern Hickorynut	S1S2	G2			 <u><a href="#">Obovaria jacksoniana</a></u>	Allen, Beauregard,

<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
							East Baton Rouge, East Feliciana, Livingston, Natchitoches, Rapides, Sabine, St. Helena, St. Tammany, Vernon
<a href="#"><u>Orconectes blacki</u></a>	Calcasieu Painted Crawfish	S2	G2			 <a href="#"><u>Orconectes blacki</u></a>	Allen, Beauregard, Rapides, Vernon
<a href="#"><u>Orconectes hathawayi</u></a>	Teche Painted Crawfish	S3	G3				Allen, Evangeline, Rapides
<a href="#"><u>Percina macrolepida</u></a>	Bigscale Logperch	S1S2	G5				Allen, Beauregard, DeSoto, Sabine
<a href="#"><u>Picoides borealis</u></a>	Red-cockaded Woodpecker	S2	G3	E	E	 <a href="#"><u>Picoides borealis</u></a>	Allen, Beauregard, Bienville, Bossier, Caddo, Caldwell, Catahoula, DeSoto, Evangeline, Grant, Jackson, LaSalle, Livingston, Morehouse, Natchitoches, Ouachita, Rapides, Sabine, St. Tammany, Tangipahoa, Union, Vernon, Webster, Winn
<a href="#"><u>Pleurobema riddellii</u></a>	Louisiana Pigtoe	S1S2	G1G2			 <a href="#"><u>Pleurobema riddellii</u></a>	Allen, Natchitoches, Rapides, Red River, Vernon

### Natural Communities

<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
<a href="#"><u>Coastal Prairie</u></a>		S1	G2Q			 <a href="#"><u>Coastal Prairie</u></a>	Acadia, Allen, Calcasieu, Cameron, Jefferson Davis, Vermilion
<a href="#"><u>Flatwoods Pond</u></a>		S1	G2Q			 <a href="#"><u>Flatwoods Ponds</u></a>	Allen, Beauregard, Calcasieu, Vernon

<u>Scientific Name</u>	<u>Common Name</u>	<u>State Rank</u>	<u>Global Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Fact Sheet</u>	<u>Parishes</u>
<u>Western Acidic Longleaf Pine Savannah</u>		S1S2	G2G3			 <u>Western Acidic Longleaf Pine Savannah</u>	Allen, Beauregard, Jefferson, Davis, Natchitoches, Rapides
<u>Western Upland Longleaf Pine Forest</u>		S2S3	G2G3			 <u>Western Upland Longleaf Pine Forest</u>	Allen, Beauregard, Bienville, Grant, Natchitoches, Rapides, Sabine, Vernon, Winn
<u>Western Xeric Sandhill Woodland</u>		S2S3	G2G3			 <u>Western Xeric Sandhill Woodland</u>	Allen, Bienville, Natchitoches, Vernon, Winn

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2000 Quail Dr. Baton Rouge, Louisiana 70898

## Qualifications





***M***EGAN WARDLOW

***P***ROJECT SCIENTIST

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**Education**

B.S. Environmental Science, Policy and Management with an emphasis in Environmental Planning, Policy, Law and Society  
Minor: Sustainability

University of Minnesota

**Experience**

Ms. Wardlow has gained experience performing informal biological assessments, wetland and floodplain determinations, threatened and endangered species determinations, critical habitat research, as well as writing National Environmental Policy Act (NEPA) environmental assessments for wireless telecommunication projects. She has conducted research regarding Section 106 compliance under the Federal Communications Commission standards. Under Section 106, she has experience with 620 and 621 Form submittal to the State Historical Preservation Offices. Ms. Wardlow is gaining experience performing Phase I Environmental Site Assessments, Indoor Air Quality Assessments as well as mold assessments.

Additionally, Ms. Wardlow has experience with the Delorme Topographic USA mapping program, Arch GIS, environmental tree surveying, and aquatic invasive species identification and prevention. She also has experience with environmental policy analyses, environmental conflict management and mediation, and consulting with city governments in expanding environmental opportunities and helping cities define and reach sustainability goals.

**Certifications/Affiliations**

Member of the National Association of Environmental Professionals



***J***ENNET NGUYEN

***A***SSISTANT PROJECT MANAGER

---

**Education**

M.S. Ecology, Evolution, and Organismal Biology  
Iowa State University

B. S. Biology with Environmental Option  
New Mexico Institute of Mining and Technology

**Experience**

Mrs. Nguyen has gained experience performing Phase I Environmental Site Assessments and NEPA Environmental Assessments for wireless communications projects. Assessment research experience has involved multiple personal interviews and the collection and synthesis of cartographic, remotely sensed, geologic, soil, groundwater, legal, land use history, and environmental contamination data for each project. She has conducted research regarding Section 106 compliance as well as submittal of 620 and 621 Forms to State Historic Preservation Offices. She has also performed informal biological assessments, wetland and floodplain determinations, as well as NEPA Environmental Assessments for wireless communications projects. Mrs. Nguyen also has experience with Indoor Air Quality Assessments.

Mrs. Nguyen also has extensive experience in both field and laboratory settings. Her laboratory experience includes microbial work with *E. coli* performing cell cultures, PCR, and PAGE. Mrs. Nguyen's field experience includes conducting vegetation and invertebrate surveys, small mammal trapping, telemetry work with large mammals, as well as soil moisture analysis. She has had experience communicating scientific research in both the university setting and professional conferences, as well as instructing courses in biology and environmental science at the College level.

**Certifications/Affiliations**

USACE Wetland Delineation



# *William A Bates*

## *Project Manager*

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### **Education**

B.A. in Biology  
Minor in Archaeology  
Boston University

### **Fields of Special Competence**

Mr. Bates specializes in performing site reconnaissance, extensive background research, sampling, and report preparation for Phase I Environmental Site Assessments (ESA), Phase II ESAs, National Environmental Policy Act (NEPA) reports, Environmental Assessments (EA), Nationwide Programmatic Agreement (NPA) site reviews, Indoor Air Quality (IAQ) assessments, and Migratory Bird Evaluations utilizing broad professional resources. Mr. Bates has a background in both biology and archaeology, providing critical knowledge of both environmental and historical resource considerations.

### **Experience**

Mr. Bates has experience performing background research, site inspections, species surveys, and soil and groundwater sampling for Phase I and Phase II ESAs, NEPA site reviews, Environmental Assessments, NPA site reviews, Indoor Air Quality assessments, and Migratory Bird Evaluations. He has conducted research, mapping, and state agency correspondence activities for wireless communications and commercial development projects throughout the United States. Mr. Bates has researched aerial photography, historic topographic maps, National Wetland Inventory maps, Federal Emergency Management Agency Flood Insurance Rate Maps, Historic Sanborn Fire Insurance maps, and city directories associated with Phase I ESAs and NEPA site reviews. Further, Mr. Bates has researched wildlife considerations via the United States Fish and Wildlife Service, along with various state-level conservation agencies, and has performed wildlife surveys via Migratory Bird Evaluations and Informal Biological Assessments. Mr. Bates has written Phase I ESAs, NEPA Assessments, EAs, NPA site reviews, IAQs, Migratory Bird Evaluations, and other associated environmental reviews.

### **Certifications/Affiliations**

40-hour OSHA Hazardous Waste Site Operations Training with 8-hour updates  
Mold Assessment Consultant – State of Texas – License #MAC1222; expires 1/26/2014  
Certified Mold Assessor – State of Florida – License #MRSA528; expires 7/31/2012  
National Association of Environmental Professionals